TOYOTA
AUDIO COMPONENT SERVICE MANUAL

COMPACT disc DIGITAL AUDIO

CQ-TS0920AB

LW/MW/UKW RDS Radio with CD Player

TOYOTA PART No. : 86120-28382

VEHICLE : PREVIA

ID CODE : 58805

DESTINATION : Europe

PRODUCED AFTER : Jan., 2001

Specification

General	
Power Supply	DC 12V (11V - 16V), Test Voltage 13.2V Negative Ground
Current Consumption	Less than 2.5A
Power Output	15W×4 (1kHz, 1%, 4Ω)
LW/MW Radio	
Frequency Range	153 - 279kHz (LW) 522 - 1,611kHz (MW)
Usable Sensitivity	32dB/μV (S/N 20dB)
FM Stereo Radio	
Frequency Range	87.5 - 108MHz
Usable Sensitivity	6dB/μV (S/N 30dB)
RDS Radio	
RDS Sensitivity	22dB/μV (S/N 30dB)

Display Block	
Display Type	Positive Pattern LCD Display
Display Illumination	Back-Light Type
CD Player	
Signal to Noise Ratio	More than 70dB (IHF-A)
Channel Separation	More than 65dB (IHF-A)
Total Harmonic Distortion	Less than 0.4%
Dimensions**	180×100×165mm
Weight**	1.9kg

* Specifications and the design are subject to possible modification without notice due to improvements.

** Dimensions and Weight shown are approximate.

PUB. No. 80603

Manufactured for TOYOTA
by Matsushita Communication Industrial Co., Ltd.

CQ-TS0920AB

CONTENTS

	Page
1 FEATUERS	2
2 LASER PRODUCTS	2
3 FRONT VIEW AND FUNCTIONS	3
4 REAR VIEW AND CONNECTOR	3
5 WIRING CONNECTION	4
6 BLOCK DIAGRAM	5
7 TERMINALS DESCRIPTION	8
8 PACKAGE AND IC BLOCK DIAGRAM	11
9 REPLACEMENT PARTS LIST	15
10 EXPLODED VIEW (Unit)	22
11 CD PLAYER PARTS	23
12 EXPLODED VIEW (CD Deck)	24
13 WIRING DIAGRAM	25
14 SCHEMATIC DIAGRAM-2	33

1 FEATUERS

- PLL (Phase Locked Loop) synthesized tuning.
- 24-station preset (6-AM, 18-FM).
- RDS (Radio Data System) function.
- Electronic volume control.
- NCD-8 CD player.
- External CD changer control.

2 LASER PRODUCTS

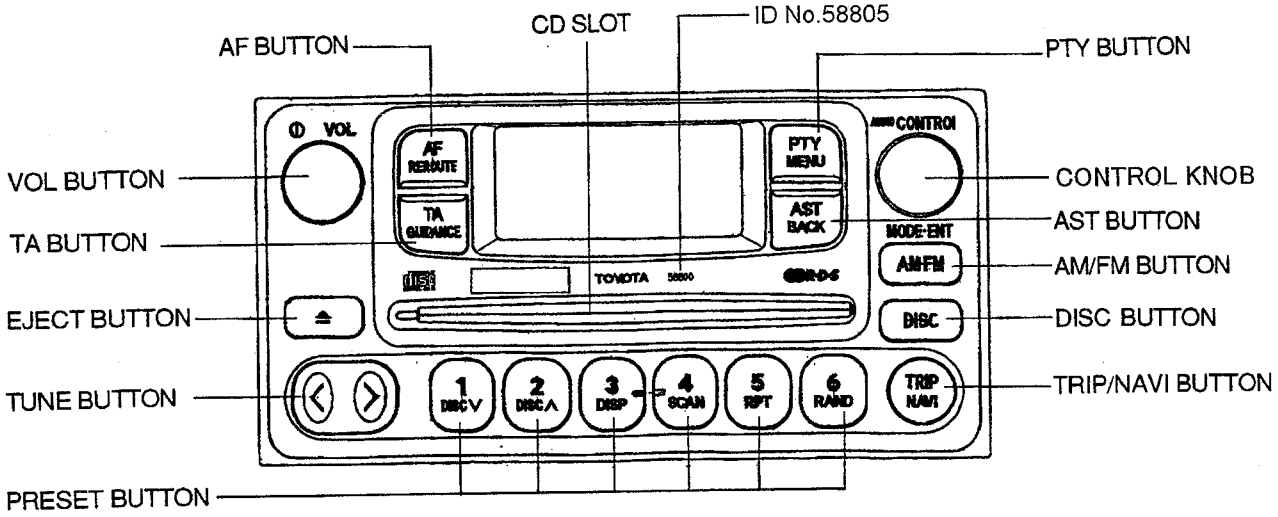
Do not take apart this unit or attempt to make any changes yourself.
This unit is very intricate that uses a laser pickup to retrieve information from the suface of compact discs. The laser is carefully shielded so that its rays remain inside the cabinet. Therefore, never try to disassemble the player or alter any of its parts since you may be exposed to laser rays and dangerous voltages.

Laser products :

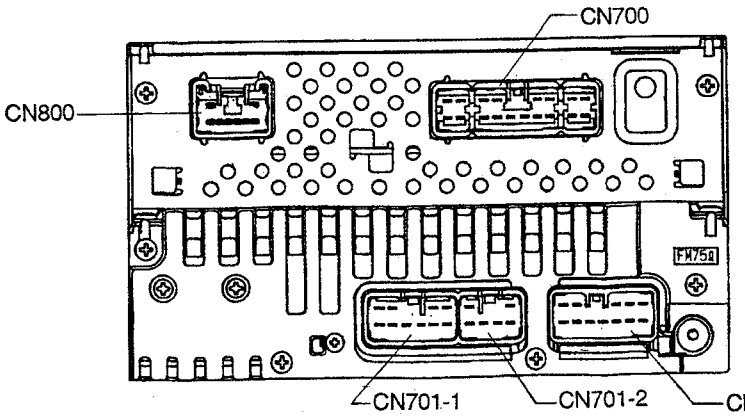
Wave length	780nm
Laser power	No hazardous radiation is emitted with safety protection.

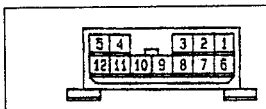
Caution
This product utillzes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

3 FRONT VIEW AND FUNCTIONS



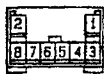
4 REAR VIEW AND CONNECTOR





CN702 12Pin Connector

1.	Signal Input, Right⊕	(R⊕)
2.	Signal Input, Left⊕	(L⊕)
3.	Signal Ground	(S.GND)
4.	Mute Control	(MUTE)
5.	Power Supply, ⊕B	(⊕B)
6.	Signal Input, Right⊖	(R⊖)
7.	Signal Input, Left⊖	(L⊖)
8.	Ground	(GND)
9.	Bus Communication⊖	(TX⊖)
10.	Bus Communication⊕	(TX⊕)
11.	NC	
12.	Power Supply, ACC	(ACC)



CN800 8Pin Connector

1.	BUS Request Output	(BRQ)
2.	NC	
3.	Signal Ground	(SGND)
4.	HIT64 Communication Terminal	(HIT⊖)
5.	HIT64 Communication Terminal	(HIT⊕)
6.	NC	
7.	NC	
8.	NC	

CN701-1 10Pin Connector

1.	Front Signal Output, Right⊕	(FR⊕)
2.	Front Signal Output, Left⊕	(FL⊕)
3.	Power Supply, ACC	(ACC)
4.	Power Supply, ⊕B	(⊕B)
5.	Front Signal Output, Right⊖	(FR⊖)
6.	Front Signal Output, Left⊖	(FL⊖)
7.	Ground	(GND)
8.	Power Supply, ANT AMP	(ANT⊕)
9.	Power Supply, AMP	(AMP⊕)
10.	Illumination⊕	(ILL⊕)

CN701-2 6Pin Connector

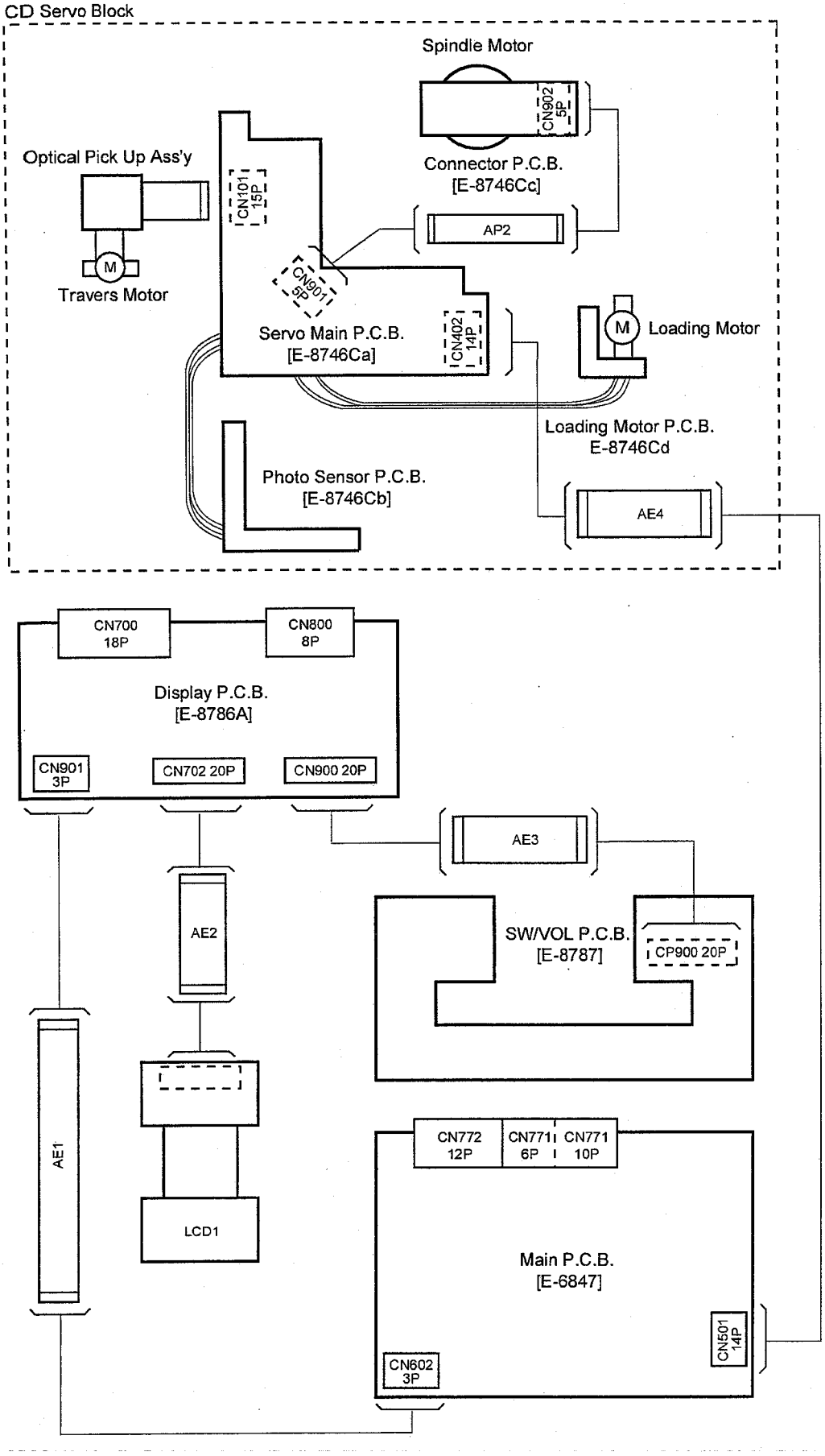
1.	Rear Signal Output, Right⊕	(RR⊕)
2.	Rear Signal Output, Left⊕	(RL⊕)
3.	Rear Signal Output, Right⊖	(RR⊖)
4.	NC	
5.	Illumination⊖	(ILL⊖)
6.	Rear Signal Output, Left⊖	(RL⊖)

CN700 18Pin Connector

1.	Engine Type Ver.2 Input	(VER2)
2.	Engine Type Ver.1 Input	(VER1)
3.	AVC-LAN Data⊕	(TX⊕)
4.	Ground	(GND)
5.	Engine Type Ver.5 Input	(VER5)
6.	NC	
7.	Ignition Pulse Input	(IG)
8.	Power Supply, Battery	(⊕B)
9.	Engine Type Ver.4 Input	(VER4)
10.	Engine Type Ver.3 Input	(VER3)
11.	AVC-LAN Data⊖	(TX⊖)
12.	Outside Temperature Signal⊖	(TH⊖)
13.	Outside Temperature Signal⊕	(TH⊕)
14.	Injecter Votage Input	(TAUB)
15.	Injecter Drive Signal Input	(TAU)
16.	Speed Pulse Input	(SPD)
17.	Illumination Voltage	(ILL⊕)
18.	Power Supply,ACC	(ACC)

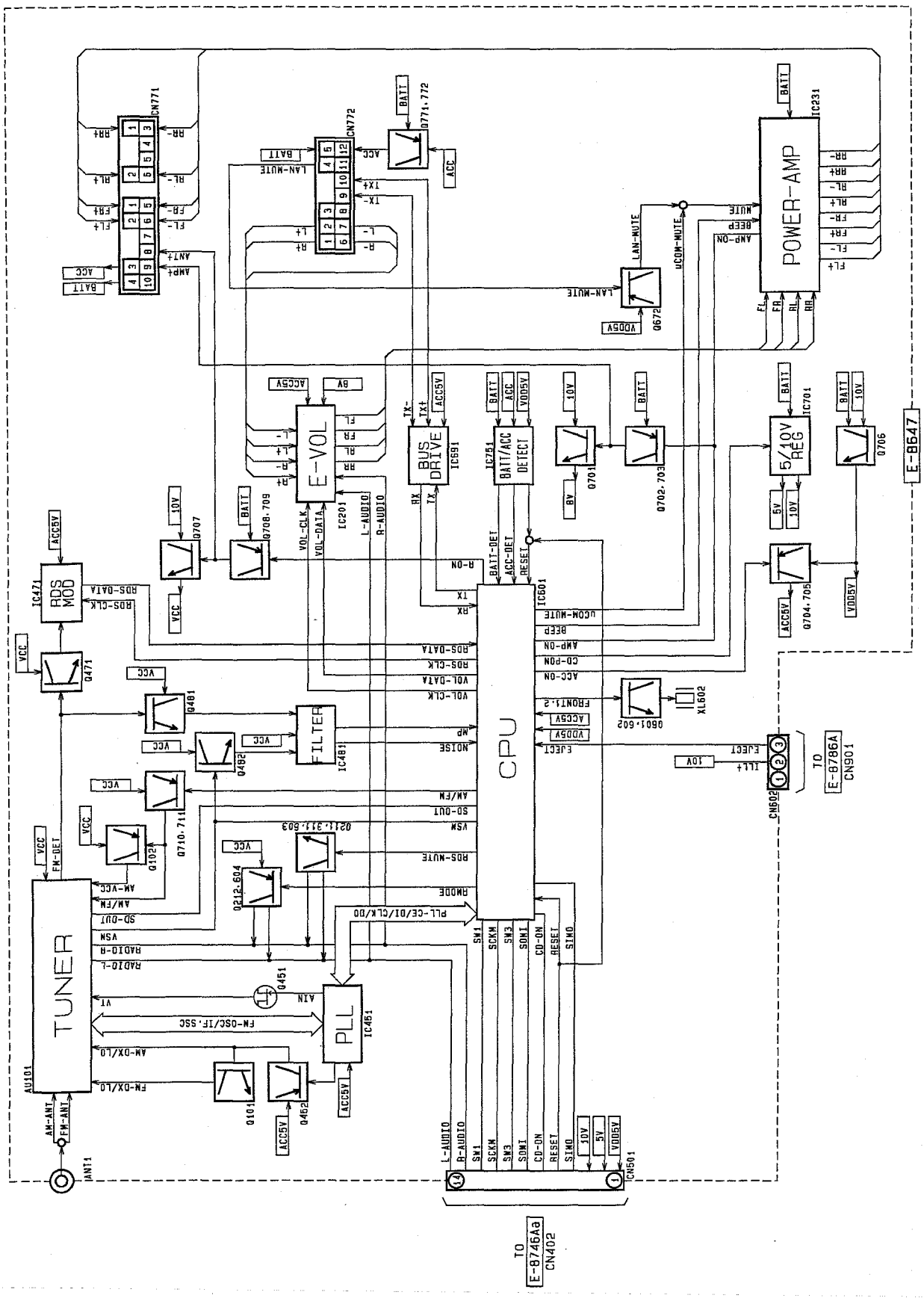
CQ-TS0920AB

5 WIRING CONNECTION



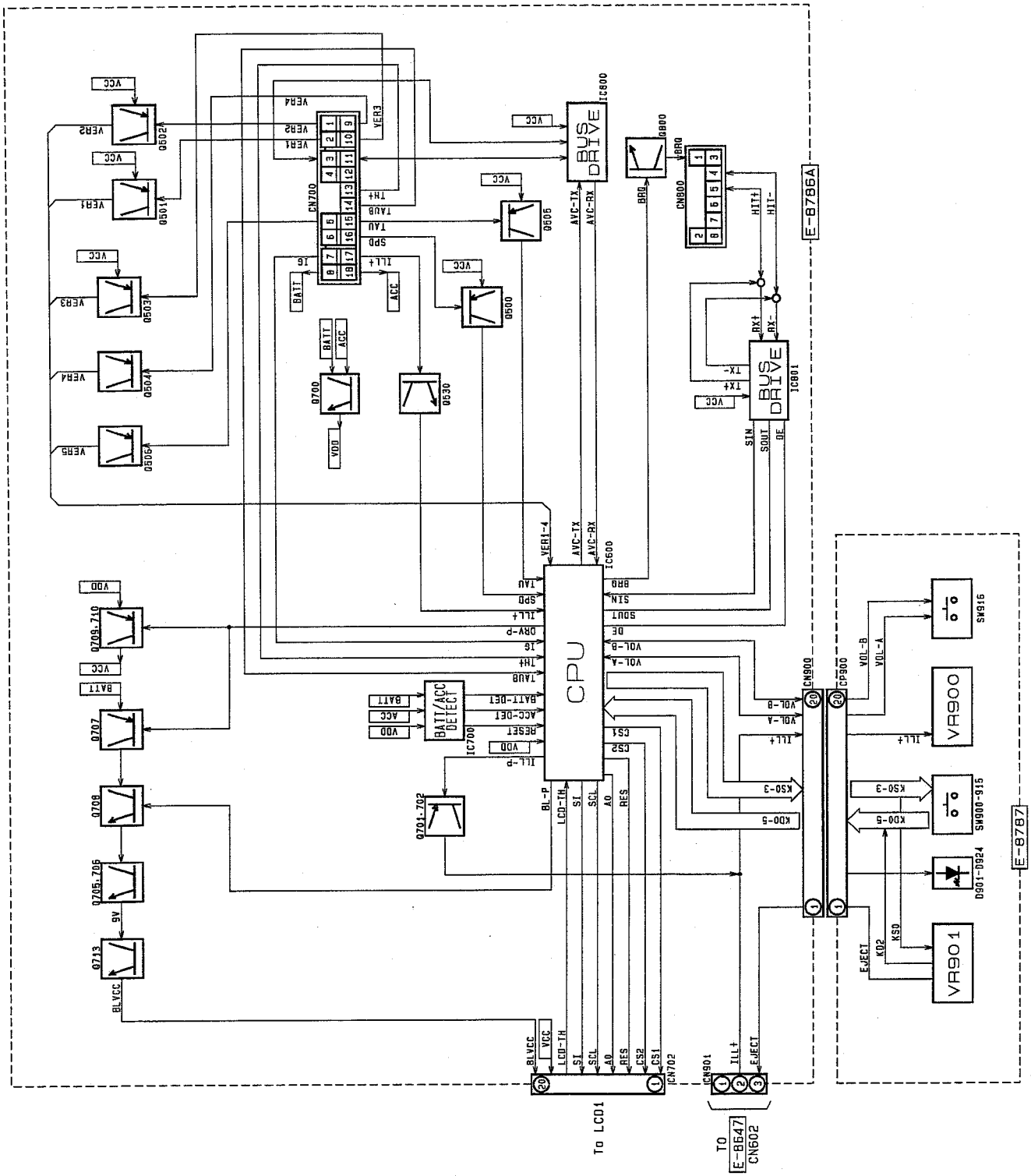
6 BLOCK DIAGRAM

6.1. Main Block

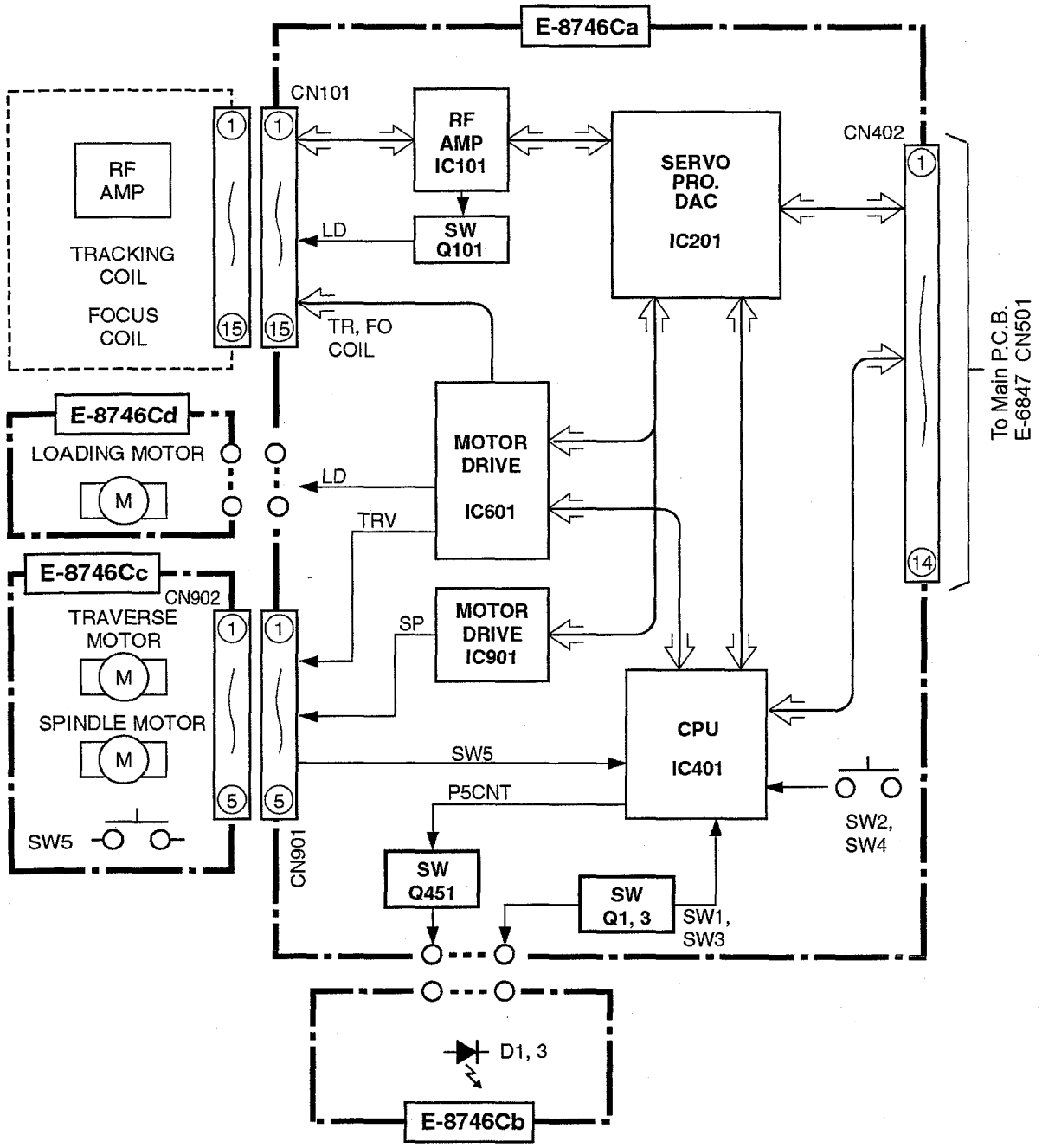


CQ-TS0920AB

6.2. Display, SW/VOL. Block



6.3. CD Servo Block



CQ-TS0920AB

7 TERMINALS DESCRIPTION

7.1. Main Block

IC601 : C2CBHF000062

Pin No.	Port	Description	I/O	FM (V)	AM (V)	CD (V)
1	MUTE	Audio Mute	O	0	0	0
2	ILL-ON(NC)	-	-	-	-	-
3	Acc.ON	ACC Power Control	O	6.5	6.5	6.5
4	AMP-ON	AMP Power Control	O	6.5	6.5	6.5
5	CD.P.ON	CD Power Control	O	6.5	6.5	6.5
6	CD-RESET	CD Reset Signal	O	6.5	6.5	6.5
7	CD-ON	CD ON signal	O	0	0	6.5
8	CD-SCKM	CD CPU Serial Data Clock	O	6.5	6.5	6.5
9	CD-SOM	CD CPU Serial Data	I	0	0	3.5
10	CD-SIM	CD CPU Serial Data	O	0	0	3.6
11	RESET	Reset Signal	I	6.2	6.5	6.5
12	XT2	Crystal Oscillator	I	3.1	3.1	3.1
13	XT1	Crystal Oscillator	O	2.8	2.8	2.8
14	VSS	Ground	-	0	0	0
15	X2	Crystal Oscillator	I	3.2	3.2	3.2
16	X1	Crystal Oscillator	O	3.0	3.0	3.0
17	REGOFF	Connect to +5V	-	6.5	6.5	6.5
18	REGC	Connect to +5V	-	6.5	6.5	6.5
19	VDD	+5V Power Supply	-	6.5	6.5	6.5
20	FCONT2	Frequency Control Out2	O	6.5	6.5	6.5
21	FCONT1	Frequency Control Out1	O	0	0	0
22	(NC)	-	-	-	-	-
23	(NC)	-	-	-	-	-
24	(NC)	-	-	-	-	-
25	(NC)	-	-	-	-	-
26	(NC)	-	-	-	-	-
27	(NC)	-	-	-	-	-
28	(NC)	-	-	-	-	-
29	(NC)	-	-	-	-	-
30	SW1	SW1 (Disc In) Output	O	0	0	4.8
31	SW3	SW3 (Disc Out) Output	O	0	0	4.9
32	LCD-CE (NC)	-	-	-	-	-
33	LCD-CLK (NC)	-	-	-	-	-
34	LCD-DI (NC)	-	-	-	-	-
35	LCD-DO (NC)	-	-	-	-	-
36	(NC)	-	-	-	-	-
37	(NC)	-	-	-	-	-
38	SEEK-SD/VC	Connect to Ground	-	0	0	0
39	IF	Connect to Ground	-	0	0	0
40	VSS	Ground	-	0	0	0
41	VDD	+5V Power Supply	-	6.5	6.5	6.5
42	(NC)	-	-	-	-	-
43	KS4 (NC)	-	-	-	-	-
44	KS3 (NC)	-	-	-	-	-
45	KS2 (NC)	-	-	-	-	-
46	KS1 (NC)	-	-	-	-	-
47	(NC)	-	-	-	-	-
48	KR3	Key Return Output 3	I	0	0	0
49	KR2	Key Return Output 4	I	0	0	0
50	KR1	Key Return Output 5	I	0	0	0
51	(NC)	-	-	-	-	-
52	POWER	Power Switch Signal	I	6.5	6.5	6.5
53	(NC)	-	-	-	-	-
54	PLL-DO	PLL Data Input	I	2.5	0	0
55	PLL-CLK	PLL Clock Output	O	0	0	0
56	PLL-DI	PLL Data Output	O	0	0	0
57	PLL-CE	PLL Chip Enable Output	O	0	0	0
58	(NC)	-	-	-	-	-
59	(NC)	-	-	-	-	-
60	(NC)	-	-	-	-	-
61	(NC)	-	-	-	-	-
62	NC(ASTB)	-	-	-	-	-
63	(NC)	-	-	-	-	-
64	(NC)	-	-	-	-	-
65	RDS-CLK	RDS Clock Output	O	3.2	3.2	3.2
66	RDS-DATA	RDS Data Input	I	3.5	3.2	3.2
67	(NC)	-	-	-	-	-
68	RMODE	Radio Mode Signal Output	O	6.5	6.5	0
69	SD.ST	Diversity Field Strength Input	I	6.5	6.5	0.7
70	(NC)	-	-	-	-	-
71	(PWM0)NC	-	-	-	-	-
72	(PWM1)NC	-	-	-	-	-
73	TESTMODE	Connect to Ground	-	0	0	0
74	VSM	Radio Signal Strength	I	0	0	0
75	MP	MP Signal	I	0	0	0
76	NOISE	Noise Detect	I	0.6	0	0
77	(NC)	-	-	-	-	-
78	RDS-MUTE	Radio Mute Output (for RDS)	O	0	6.5	0
79	TEST	Test Signal	I	6.5	6.5	6.5
80	VOL CLK	Volume Control Clock	O	0	0	0
81	VOL DATA	Volume Control Data	O	0	0	0
82	AVDD	Analog Power Supply	-	6.5	6.5	6.5
83	AVREF1	Analog Voltage Reference1	-	6.5	6.5	6.5
84	AVSS	Ground	-	0	0	0
85	RX	AVC-LAN Data Input	I	0	0	0
86	TX	AVC-LAN Data Output	O	0	0	0
87	(NC)	Connect to Ground	-	0	0	0
88	INP0(NC)	Connect to Ground	-	0	0	0
89	INP1(NC)	Connect to +5V	-	6.5	6.5	6.5
90	+B-DET	+B Detect	I	6.5	6.5	6.5
91	INP3(NC)	Connect to +5V	-	6.5	6.5	6.5
92	ACC-DET	ACC Detect	I	6.5	6.5	6.5
93	EJECT	CD Eject Switch	I	6.5	6.2	6.5
94	(NC)	Connect to +5V	-	6.5	6.5	6.5
95	ILL-DET (NC)	-	-	-	-	-
96	FM/AM	AM/FM Select Output	O	6.5	0	0
97	R.ON	Radio ON Signal	O	6.5	6.5	0
98	(NC)	-	-	-	-	-
99	BEEP	Beep Sound Input	I	0	0.3	0.7
100	(NC)	-	-	-	-	-

7.2. Display Block

IC600 : C2CBJG000098

Pin No.	Port	Description	I/O	Vol.(V)
1	D/A1(NC)	-	-	-
2	D/A2(NC)	-	-	-
3	NC	-	-	-
4	NC	-	-	-
5	TAU	Injecter Pulse Input	I	0
6	GND	GND	-	0
7	GND	GND	-	0
8	32.768KHz	Crystal Oscillator Input (32.768kHz)	I	1.5
9	32.768KHz	Crystal Oscillator Output (32.769kHz)	O	1.3
10	RESET	Reset Input	I	5.1
11	10MHz	Crystal Oscillator Output (10kHz)	O	2.5
12	GND	GND	-	0
13	10MHz	Crystal Oscillator Input (10kHz)	I	2.3
14	VCC	+5V Power Supply	-	5
15	BYTE	+5V Power Supply	-	5
16	B DET	Power Supply Level Detection (+B)	I	5.1
17	ACC DET	Power Supply Level Detection (ACC)	I	5
18	SPD	Speed Pulse Input	I	0
19	AVC -TM	AVC-LAN Start/Stop Detection	I	0
20	DRV-P	Intemal Power Supply Control	O	5.1
21	M VOL B	Volume Pluse Counter Input	I	0.5
22	M VOL A	Volume Pluse Counter Input	I	0.5
23	P VOL B	Volume Pluse Counter Input	I	0.5
24	P VOL A	Volume Pluse Counter Input	I	0.5
25	DE	Enable Signal Output for HIT64	O	0
26	HBRQ	Bus Request Signal Output for HIT64	O	0
27	AVC-RX	AVC-LAN Data Input	I	0
28	AVC-TX	AVC-LAN Data Output	O	0
29	SI	Senal Data Output for LCD Driver	O	0
30	NC	-	-	-
31	SCL	Serial Clock Output for LCD Driver	O	5.1
32	CS2	Chip Select Output for LCD Driver	O	5.1
33	SOUT	Serial Data Output for HIT64	O	0
34	SIN	Serial Data Intput for HIT64	I	2.3
35	SC1	Chip Select Output for LCD Driver	O	4.9
36	A0	Data/Command Selector for LCD Driver	O	0
37	NC	-	-	-
38	NC	Test Mode Selector in Factory	I	5.1
39	NC	-	-	-
40	LCD-P(NC)	-	-	-
41	THM-P(NC)	-	-	-
42	BL-P	+5V Power Supply	O	5
43	RES	Reset Output for LCD Driver	O	0
44	HPM	-	-	-
45	NODEL2	Back Light Dimmer Control Output	O	5.1
46	NODEL1	-	-	-
47	NODEL0	Illumination Control Output	O	5.1
48	CS1	-	-	-
49	KEY-S3	Key Scan Source Output 3	O	0
50	KEY-S2	Key Scan Source Output 2	O	4.9
51	KEY-S1	Key Scan Source Output 1	O	5
52	KEY-S0	Key Scan Source Output 0	O	4.9
53	KEY-D7	Key Scan Input 7	I	5.1
54	KEY-D6	Key Scan Input 6	I	5.1
55	KEY-D5	Key Scan Input 5	I	5.1
56	KEY-D4	Key Scan Input 4	I	5.1
57	KEY-D3	Key Scan Input 3	I	5.1
58	KEY-D2	Key Scan Input 2	I	5.1
59	KEY-D1	Key Scan Input 1	I	5.1
60	VCC	+5V Power Supply	-	5
61	KEY-D0	Key Scan Input 0	I	5.1
62	GND	GND	-	0
63	MODEL3	Model Selector Signal 3	I	5.1
64	MODEL2	Model Selector Signal 2	I	5.1
65	MODEL1	Model Selector Signal 1	I	5.1
66	MODEL0	Model Selector Signal 0	I	5.1
67	VER4	Engine Type Signal 4	I	0
68	VER3	Engine Type Signal 3	I	0
69	VER2	Engine Type Signal 2	I	0
70	VER1	Engine Type Signal 1	I	0
71	VER5	Engine Type Signal 5	I	0
72	VREF-D8	-	-	-
73	VREF-D7	-	-	-
74	VREF-D6	-	-	-
75	VREF-D5	Reset Detection for LCD Driver	I	5.1
76	TEST MODE	-	-	-
77	VREF-D3	-	-	-
78	VREF-D2	-	-	-
79	DM-D9	-	-	-
80	DM-D8	-	-	-
81	DM-D7	-	-	-
82	DM-D6	-	-	-
83	DM-D5	-	-	-
84	DM-D4	-	-	-
85	DM-D3	-	-	-
86	DM-D2	-	-	-
87	NC	-	-	-
88	NC	-	-	-
89	NC	-	-	-
90	LCD TEMP	LCD Temperature Detection Thermister Input	I	3.2
91	IG	Ignition Voltage Input	I	0
92	FULE	Fuel Meter Detection Signal	I	5.1
93	TEMP	Open Air Temperature Sensor Input	I	0
94	GND	GND	-	0
95	TAUB	Injecter Driver Voltage Input	I	0
96	VREF	+5V Power Supply	-	5
97	AVCC	+5V Power Supply	-	5
98	L(NC)	-	-	-
99	NC	-	-	-
100	ILL+	Illumination Detect	I	0

CQ-TS0920AB

7.3. CD Servo Block

IC201 : MN662748RPMF

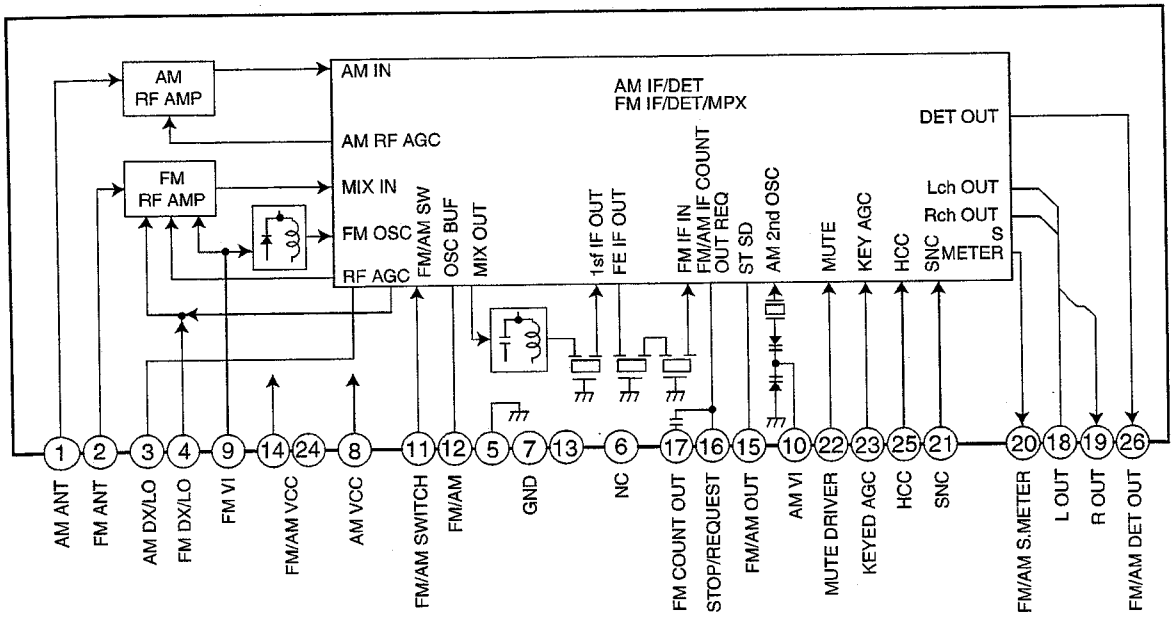
Pin No.	Port	Description	I/O	(V)
1	BCLK	Not used	-	-
2	LRCK	Not used	-	-
3	SRDATA	Not used	-	-
4	DVDD	+5V digital power supply	-	5.0
5	DVSS1	Digital ground	-	0
6	TX	Not used	-	-
7	MCLK	MPU command clock	I	0
8	MDATA	MPU command data	I	0
9	MLD	MPU command load	I	0
10	SENSE	Sense signal	O	0
11	/FLOCK	Focus servo lock	O	0
12	/TLOCK	Tracking servo lock	O	4.9
13	BLKCK	Not used	-	-
14	SQCK	Q code external clock	I	4.9
15	SUBQ	Q code output	O	2.5
16	DMUTE	DSP mute	I	0
17	STAT	DSP Status output	O	3.1
18	/RST	Reset input	I	4.9
19,20		Not used	-	-
21	TRV	Forced traverse output	O	2.5
22	TVD	Traverse drive output	O	2.5
23	PC	Spindle motor control	O	0
24	ECM	Spindle motor drive	O	2.5
25	ECS	Spindle motor drive	O	2.5
26	KICK	Kick pulse output	O	2.5
27	TRD	Tracking motor drive	O	2.5
28	FOD	Focus motor drive	O	2.5
29	VREF	D/A reference voltage	I	2.5
30	FBAL	Focus balance adjust	O	2.5
31	TBAL	Tracking balance adjust	O	2.5
32	FE	Focus error signal	I	2.5
33	TE	Tracking error signal	I	2.5
34	RFENV	RF envelope signal	I	2.5
35	VDET	Vibration detection	I	0
36	OFTR	Off track signal	I	0
37	TRCRS	Track closs signal	I	2.1
38	/RFDET	RF detection signal	I	0
39	BDO	Drop out signal	I	0
40	LDON	Laser on/off control	O	4.5
41	PLLF2	Not used	-	-
42	TOFS	TE offset	O	2.5
43	WVEL	Not used	-	-
44	ARE	RF signal	I	1.7
45	IREF	Reference current input	I	1.6
46	DRF	DSL bias	I	0
47	DSLF	DSL loop filter	I/O	2.4
48	PLLF	PLL loop filter	I/O	1.8
49	VCOF	Not used	-	-
50	AVDD2	+5V analog power supply	-	5.0
51	AFSS2	Analog ground	-	0
52	EFM	Not used	-	-
53	PCK/DSLB	DSL bias	I	2.4
54	VCOF2	Tracking offset	O	2.5
55	SUBC	Not used	-	-
56	SBCK	(Connecting to ground)	-	-
57	VSS	Ground	-	0
58	X1	Crystal oscillator	I	1.7
59	X2	Crystal oscillator	O	2.3
60	VDD	+5V power supply	-	5.0
61,62	-	Not used	-	-
63	FCLK	Not used	-	-
64	IPFLAG	Not used	-	-
65	FLAG	Not used	-	-
66-69	-	Not used	-	-
70	IOSEL	(Connecting to ground)	I	0
71	/TEST	(Connecting to ground)	I	0
72	AVDD1	+5V analog power supply	-	4.9
73	OUTL	Audio Lch output	O	4.9
74	AVSS1	Analog ground	-	0
75	OUTR	Audio Rch output	O	4.9
76	RSEL	(Connecting to ground)	-	0
77	CSEL	(Connecting to ground)	-	0
78	PSEL	(Connecting to ground)	-	0
79	MSEL	(Connecting to ground)	-	0
80	SSEL	mode select	I	5.0

IC401 : MN101C117AF

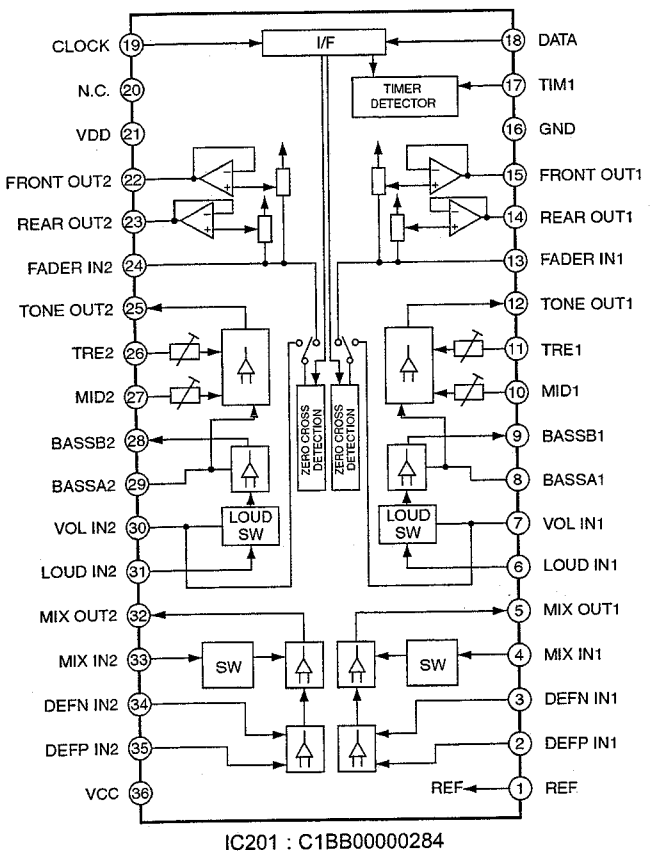
Pin No.	Port	Description	I/O	(V)
1	MASHON	Servo IC OSC control	O	5.0
2	P82	No connection	-	-
3	P81	No connection	-	-
4	P80	(Connection to ground)	-	0
5	Q1	Photo sensor signal (DISC IN)	I	4.5
6	Q3	Photo sensor signal (DISC OUT)	I	4.2
7	Q6	Photo sensor signal (Option)	I	5.0
8	SW4	Clamp SW signal	I	0
9	SW5	Inner SW signal	I	5.0
10	SW2	Feeder arm SW	I	5.0
11	PA6	(Connection to ground)	-	0
12	PA7/IFR	(Connecting to ground)	I	0
13	VDD	+5V power supply	-	5.0
14	OSC2	Crystal oscillator	-	5.0
15	OSC1	Crystal oscillator	-	3.3
16	VSS	Ground	-	0
17	NC	No connection	-	-
18	SOMI	CD control data	O	3.2
19	SIMO	CD control data	I	3.8
20	SCLM	Data shift clock	I	5.0
21	P06	Not used	-	-
22	BD0	Drop out signal	I	0
23	PC1	Loading motor driver control	O	5.0
24	PS2	Focus/Tracking driver control	O	0
25	VDET	Vibration detecting signal	I	0
26	P14	No connection	-	-
27	CDON	CD on signal	I	5.0
28	IRQ1.SENSE	(Connecting to groung)	-	0
29	IRQ2	(Connecting to ground)	-	0
30	LOD	Loading motor control	-	2.6
31	TRV	Traverse motor control	-	2.5
32	/PRST	Servo IC reset	O	5.0
33	STAT	Status signal	I	4.0
34	DMUTE	DSP mute	O	0
35	SUBQ	Sub code Q data	I	2.6
36	SQCK	Sub code Q clock	O	5.0
37	/TLOCK	Tracking servo lock	I	0
38	/FLOCK	Focus servo lock	I	0
39	NRST	reset input	I	5.0
40	MMOD	(Connecting to ground)	-	0
41	SENSE	Sense signal	I	0
42	MLD	Command load	O	5.0
43	MDATA	Command data	O	0.9
44	MCLK	Command clock	O	4.6

8 PACKAGE AND IC BLOCK DIAGRAM

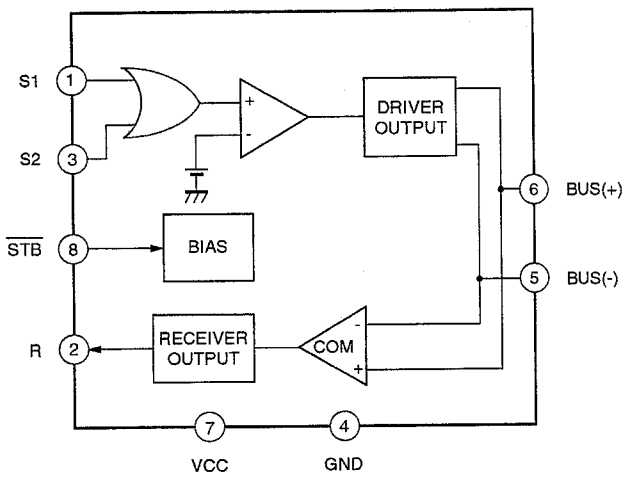
8.1. Main Block



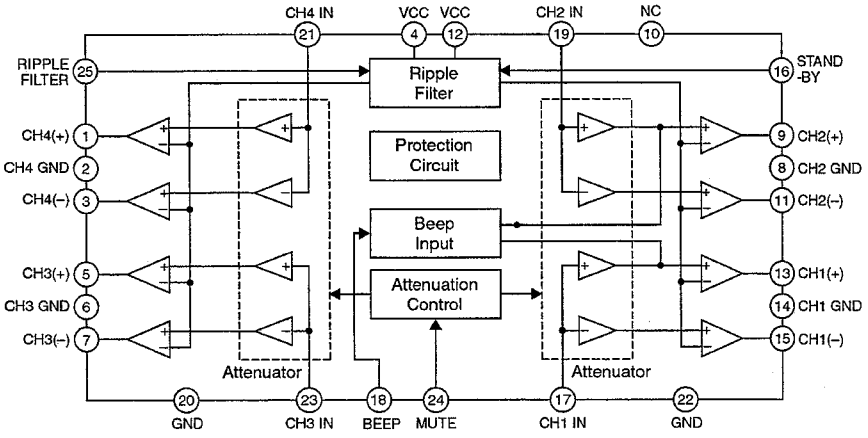
AU101 : YEAU03340E02



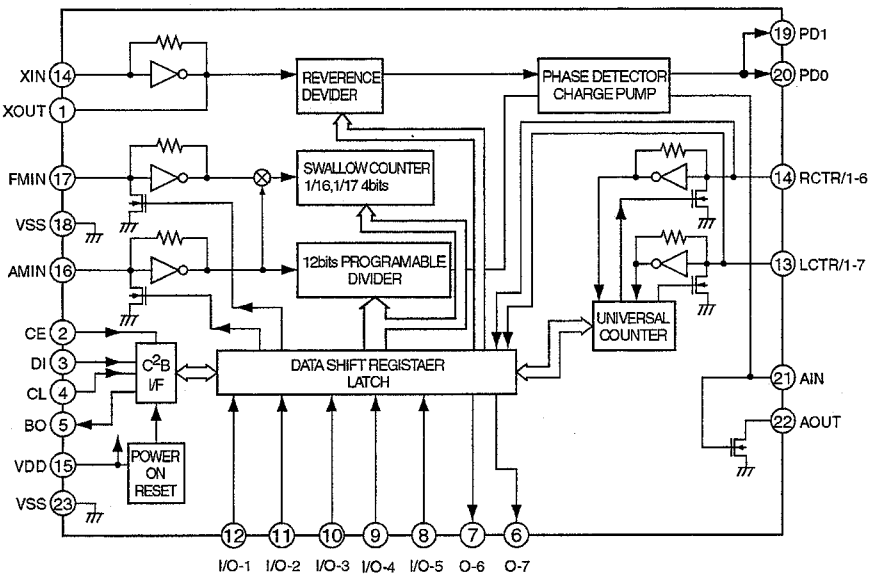
IC201 : C1BB00000284



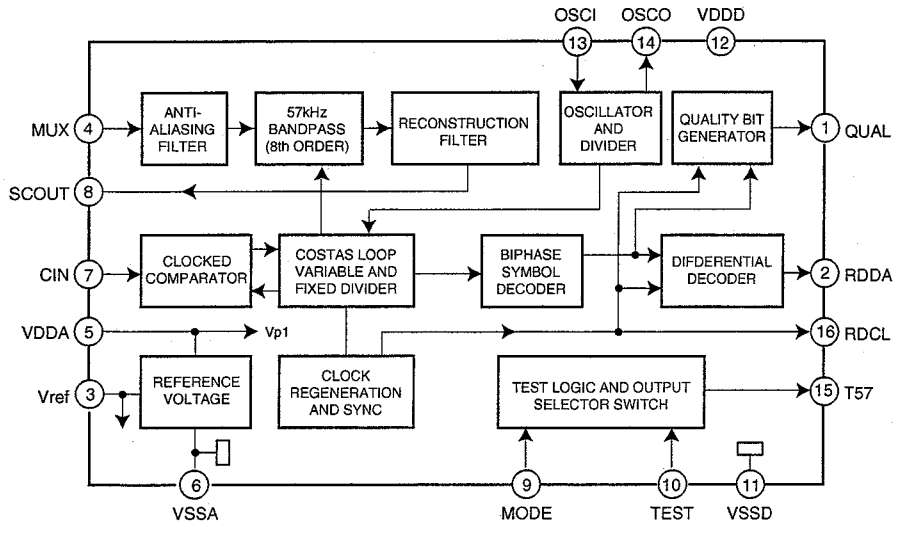
IC691 : YEAMH12187ER



IC231 : AN7550NZAWLB

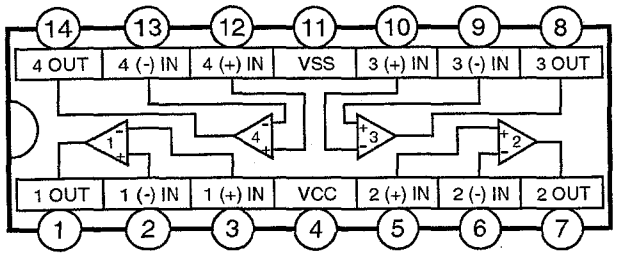


IC451 : YEAMLC72146T

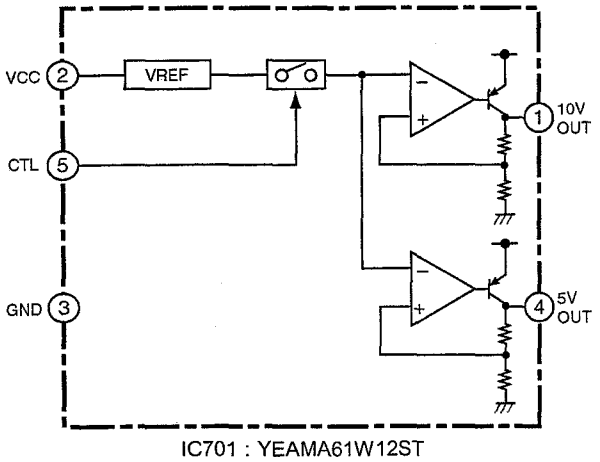


IC471 : YEAMSAA6579

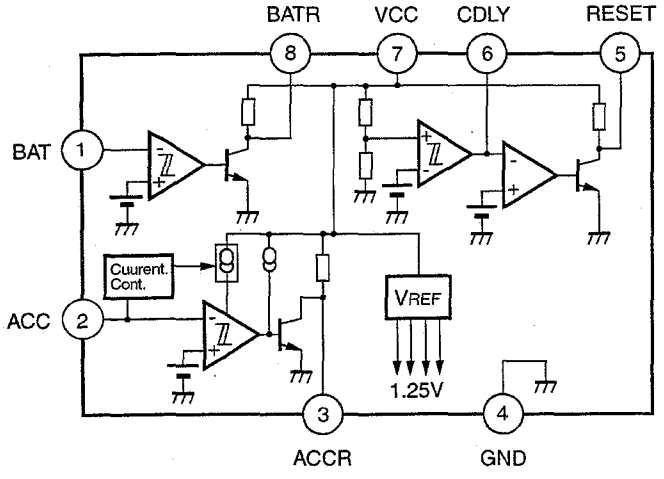
8.2. Display Block



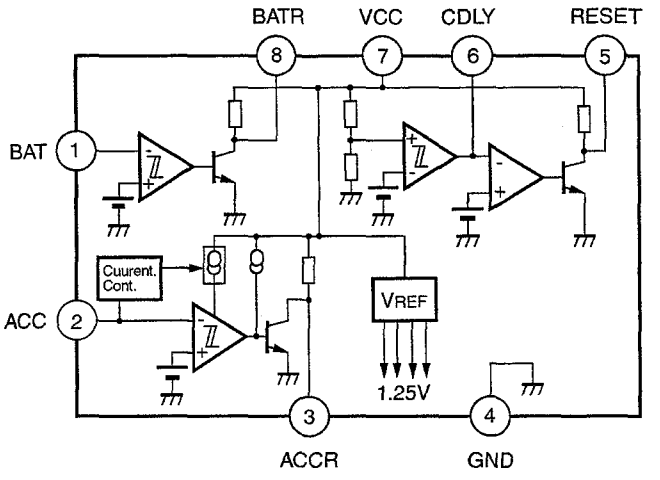
IC481 : C0ABCB000005



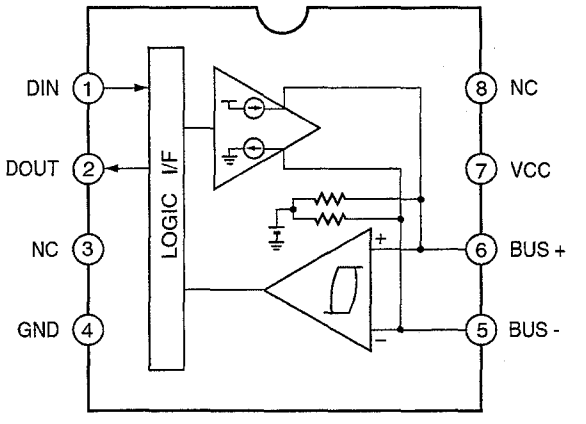
IC701 : YEAMA61W12ST



IC751 : AN8065SE1

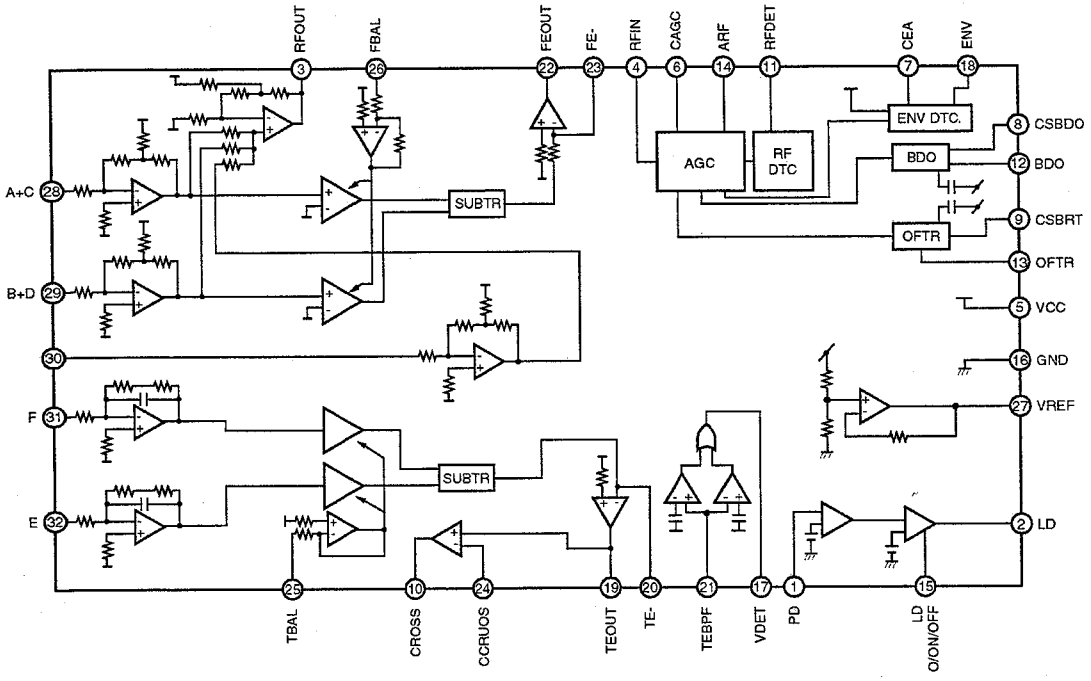


IC700 : AN8065SE1

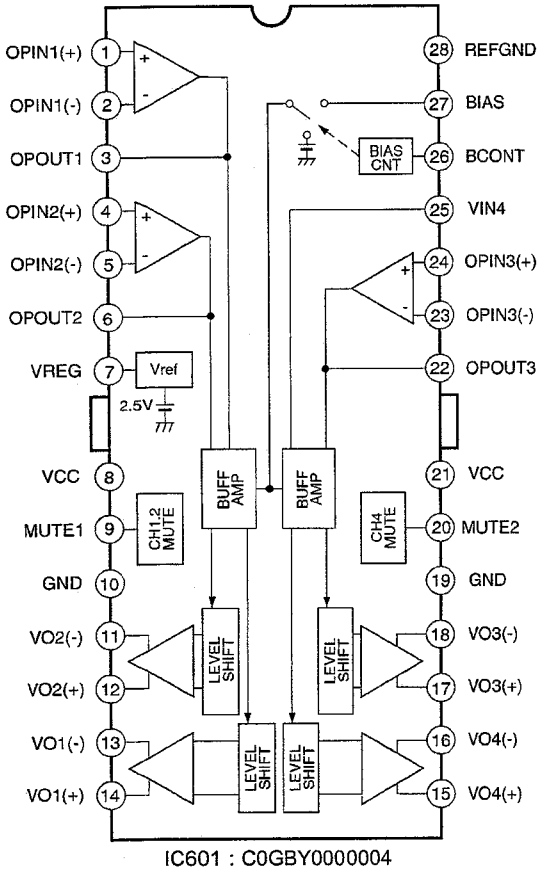


IC800 : YEAMPA0051AM

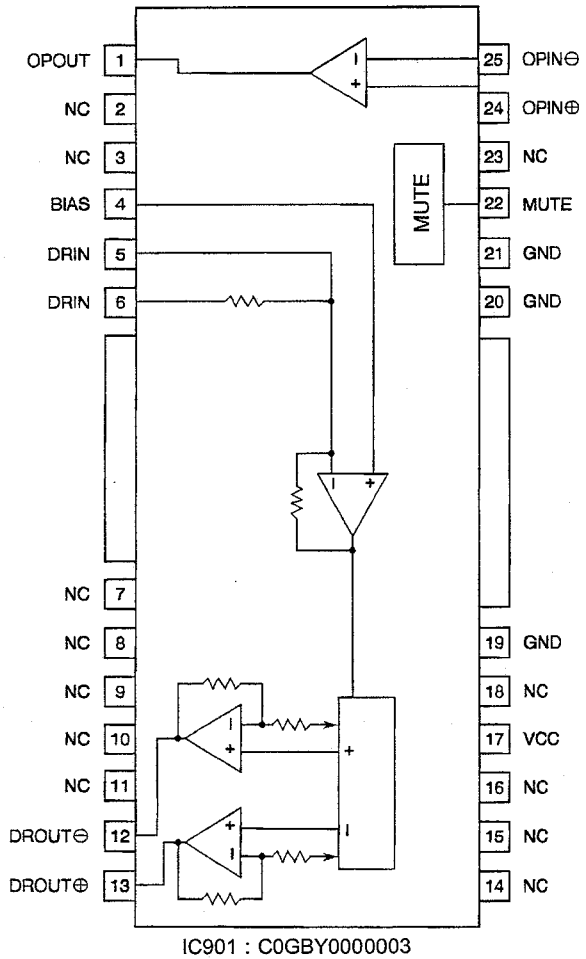
8.3. CD Servo Block



IC101 : C1BB00000173



IC601 : C0GBY0000004



IC901 : C0GBY0000003

9 REPLACEMENT PARTS LIST

Notes :

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
5. "MCC" marks in remarks column are indicated supply parts of Matsushita Communication Industrial Corp. of America (MCC).

Ref. No.	Part No.	Part Name & Description	Remarks
[E6847] Main Block			
IC's and TRANSISTORs			
AU101	YEAU03340E02	Electronic Tuner	
IC201	C1BB00000284	IC	
IC231	AN7550NZAWLB	IC	
IC451	YEAMLC72146T	IC	
IC471	YEAMSAA6579	IC	
IC481	C0ABCB000005	IC	
IC601	C2CBHF000062	IC	
IC691	YEAMH12187ER	IC	
IC701	YEAMA61W12ST	IC	
IC751	AN8065SE1	IC	
Q101	B1GBCFNN0005	Transistor	
Q102	YEANA114YKTX	Transistor	
Q211	YEANC323TKT	Transistor	
Q212	YEANA144EKTX	Transistor	
Q311	YEANC323TKT	Transistor	
Q451	YEAN2SK536TB	Transistor	
Q452	YEANA144EKTX	Transistor	
Q471	B1ABCF000044	Transistor	
Q481	B1ABCF000044	Transistor	
Q482	B1ABCF000044	Transistor	
Q601	2SD1328STTX	Transistor	
Q602	2SD1328STTX	Transistor	
Q603	YEANA144EKTX	Transistor	
Q604	B1GBCFNN0005	Transistor	
Q672	YEANA143ZKTX	Transistor	
Q701	YEAND1862T	Transistor	
Q702	YEANFP1F3PT1	Transistor	
Q703	B1GBCFJN0005	Transistor	
Q704	YEANFP1F3PT1	Transistor	
Q705	B1GBCFJN0005	Transistor	
Q706	B1BBAC000007	Transistor	
Q707	YEAND1862T	Transistor	
Q708	2SB1446TA	Transistor	
Q709	B1GBCFJN0005	Transistor	
Q710	YEANFP1F3PT1	Transistor	
Q711	B1GBCFJN0005	Transistor	
Q771	2SB1398QTA	Transistor	
Q772	B1GBCFJN0005	Transistor	
DIODEs			

Ref. No.	Part No.	Part Name & Description	Remarks
D101	YEAD1SS355T1	Diode	
D201	MA165TA	Diode	
D231	B0EANP000001	Diode	
D251	YEADRD39M2T2	Diode	
D301	MA165TA	Diode	
D481	MA153TX	Diode	
D482	MA153TX	Diode	
D501	MA151WATX	Diode	
D601	YEAD1SS355T1	Diode	
D672	YEAD1SS355T1	Diode	
D673	YEAD1SS355T1	Diode	
D674	YEAD1SS355T1	Diode	
D675	YEAD1SS355T1	Diode	
D691	YEADRD56M2T1	Diode	
D692	YEADRD56M2T1	Diode	
D701	YEADRB051L40	Diode	
D732	MA4091L	Diode	
D733	MA4091L	Diode	
D734	YEAD1SS355T1	Diode	
D735	MA165TA	Diode	
D736	YEADRD56M2T1	Diode	
D771	MAZ40820MF	Diode	
CAPACITORs			
C51	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C101	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C102	ECEA1AKA101I	Electrolytic, 100µF 10WV	
C103	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C104	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C105	YECUS1E333KX	Ceramic, 0.033µF 25WV	
C106	YECUS1E333KX	Ceramic, 0.033µF 25WV	
C107	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C109	ECEA1AKA221I	Electrolytic, 220µF 10WV	
C110	YECUS1H271JM	Ceramic, 270PF 50WV	
C111	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C121	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C123	ECEA1AKA220I	Electrolytic, 22µF 10WV	
C131	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C201	YECUS1A105KX	Ceramic, 1µF 10WV	
C202	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C203	YECUS1C683KX	Ceramic, 0.068µF 16WV	
C204	YECUS1C683KX	Ceramic, 0.068µF 16WV	
C205	F1J1C184A006	Ceramic, 0.18µF 16WV	
C206	YECUS1H561KX	Ceramic, 560PF 50WV	
C207	YECUS1A105KX	Ceramic, 1µF 10WV	
C208	YECUS1E473KX	Ceramic, 0.047µF 25WV	
C211	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C212	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C213	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C214	ECEA1HKS010I	Electrolytic, 1µF 50WV	
C215	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C216	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C217	ECEA1HKS010I	Electrolytic, 1µF 50WV	
C218	ECEA1HKS010I	Electrolytic, 1µF 50WV	
C221	YECUS1A105KX	Ceramic, 1µF 10WV	
C222	YECUS1A105KX	Ceramic, 1µF 10WV	
C231	YECUV1C224KX	Ceramic, 0.22µF 16WV	
C232	YECUV1C224KX	Ceramic, 0.22µF 16WV	
C233	YECUV1C224KX	Ceramic, 0.22µF 16WV	
C234	YECUV1C224KX	Ceramic, 0.22µF 16WV	
C235	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C236	ECEA1CKA330I	Electrolytic, 33µF 16WV	
C237	ECA1CGE222L	Electrolytic, 2200µF 16WV	
C251	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C253	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C254	ECEA1CKA101	Electrolytic, 100µF 16WV	
C255	ECEA0JKA101I	Electrolytic, 100µF 6.3WV	
C256	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C301	YECUS1A105KX	Ceramic, 1µF 10WV	
C302	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C303	YECUS1C683KX	Ceramic, 0.068µF 16WV	
C304	YECUS1C683KX	Ceramic, 0.068µF 16WV	

CQ-TS0920AB

Ref. No.	Part No.	Part Name & Description	Remarks
C305	F1J1C184A006	Ceramic, 0.18µF 16WV	
C306	YECUS1H561KX	Ceramic, 560PF 50WV	
C307	YECUS1A105KX	Ceramic, 1µF 10WV	
C311	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C312	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C314	ECEA1HKS010I	Electrolytic, 1µF 50WV	
C315	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C316	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C317	ECEA1HKS010I	Electrolytic, 1µF 50WV	
C318	ECEA1HKS010I	Electrolytic, 1µF 50WV	
C321	YECUS1A105KX	Ceramic, 1µF 10WV	
C322	YECUS1A105KX	Ceramic, 1µF 10WV	
C331	YECUV1C224KX	Ceramic, 0.22µF 16WV	
C332	YECUV1C224KX	Ceramic, 0.22µF 16WV	
C333	YECUV1C224KX	Ceramic, 0.22µF 16WV	
C334	YECUV1C224KX	Ceramic, 0.22µF 16WV	
C453	YECUV1H101JM	Ceramic, 100PF 50WV	
C454	YECUV1H101JM	Ceramic, 100PF 50WV	
C455	YECUS1H180JC	Ceramic, 18PF 50WV	
C456	YECUS1H180JC	Ceramic, 18PF 50WV	
C458	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C459	ECEA1AKA221I	Electrolytic, 220µF 10WV	
C460	ECEA1AKA221I	Electrolytic, 220µF 10WV	
C461	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C462	YECUS1H822KX	Ceramic, 0.0082µF 50WV	
C463	ECQV1H683B46	Plastic Film, 0.068µF 50WV	
C471	YECUS1H820JM	Ceramic, 82PF 50WV	
C472	YECUS1H470JC	Ceramic, 47PF 50WV	
C473	ECEA1AKA220I	Electrolytic, 22µF 10WV	
C475	ECEA1HKA2R2I	Electrolytic, 2.2µF 50WV	
C476	YECUS1H271JM	Ceramic, 270PF 50WV	
C477	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C478	YECUS1H561KX	Ceramic, 560PF 50WV	
C479	YECUS1H331JM	Ceramic, 330PF 50WV	
C481	YECUS1H151JM	Ceramic, 150PF 50WV	
C482	YECUS1H151JM	Ceramic, 150PF 50WV	
C483	YECUS1H151JM	Ceramic, 150PF 50WV	
C484	YECUS1H151JM	Ceramic, 150PF 50WV	
C485	YECUV2A102KX	Ceramic, 0.001µF 100WV	
C486	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C487	YECUS1H152KX	Ceramic, 0.0015µF 50WV	
C488	YECUV2A103KX	Ceramic, 0.01µF 100WV	
C489	YECUS1H100CC	Ceramic, 10PF 50WV	
C490	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C491	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C492	ECEA1HKA4R7	Electrolytic, 4.7µF 50WV	
C493	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C601	YECUS1H220JC	Ceramic, 22PF 50WV	
C602	YECUS1H220JC	Ceramic, 22PF 50WV	
C603	F1J1H390A025	Ceramic, 39PF 50WV	
C604	F1J1H390A025	Ceramic, 39PF 50WV	
C605	F1J1H390A025	Ceramic, 39PF 50WV	
C606	YECUS1H220JC	Ceramic, 22PF 50WV	
C609	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C615	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C616	YECUV2A103KX	Ceramic, 0.01µF 100WV	
C671	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C691	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C701	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C702	ECA1CGE222L	Electrolytic, 2200µF 16WV	
C703	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C704	ECEA1AKA101I	Electrolytic, 100µF 10WV	
C705	EEUFC1A181H	Electrolytic, 180µF 10WV	
C706	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C707	F1K1C474A014	Ceramic, 0.47µF 16WV	
C708	ECEA0JKA221I	Electrolytic, 220µF 6.3WV	
C709	YECUV1A475KX	Ceramic, 4.7µF 10WV	
C710	ECEA1AKS221I	Electrolytic, 220µF 10WV	
C752	YECUV2A103KX	Ceramic, 0.01µF 100WV	
C753	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C771	YECUV2A103KX	Ceramic, 0.01µF 100WV	
C772	YECUV2A103KX	Ceramic, 0.01µF 100WV	
C774	YECUS1H103KX	Ceramic, 0.01µF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C776	YECUS1H221JM	Ceramic, 220PF 50WV	
C777	YECUS1H221JM	Ceramic, 220PF 50WV	
C778	YECUS1H221JM	Ceramic, 220PF 50WV	
C779	YECUS1H221JM	Ceramic, 220PF 50WV	
C780	YECUS1H221JM	Ceramic, 220PF 50WV	
C781	YECUS1H221JM	Ceramic, 220PF 50WV	
C782	YECUV2A103KX	Ceramic, 0.01µF 100WV	
C783	YECUV2A103KX	Ceramic, 0.01µF 100WV	
C784	YECUV2A103KX	Ceramic, 0.01µF 100WV	
R10	YECUS1H103KX	Ceramic, 0.01µF 50WV	
R106	YECUS1H102KX	Ceramic, 0.001µF 50WV	
RESISTORs			
J301-338	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J339	ERJ8GX0R00V	Chip, 0Ω 1/8W	
J340	ERJ8GX0R00V	Chip, 0Ω 1/8W	
J341	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J342	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J343	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J344	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J402	ERJ6GEY0R00	Chip, 0Ω 1/10W	
J403	ERJ6GEY0R00	Chip, 0Ω 1/10W	
J404	ERJ6GEY0R00	Chip, 0Ω 1/10W	
J405	ERJ6GEY0R00	Chip, 0Ω 1/10W	
J406	ERJ6GEY0R00	Chip, 0Ω 1/10W	
J407	ERJ6GEY0R00	Chip, 0Ω 1/10W	
J408	ERJ6GEY0R00	Chip, 0Ω 1/10W	
J409	ERJ6GEY0R00	Chip, 0Ω 1/10W	
J410	ERJ6GEY0R00	Chip, 0Ω 1/10W	
J411	ERJ6GEY0R00	Chip, 0Ω 1/10W	
J415	ERJ6GEY0R00	Chip, 0Ω 1/10W	
J416	ERJ6GEY0R00	Chip, 0Ω 1/10W	
J417	ERJ6GEY0R00	Chip, 0Ω 1/10W	
L502	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R11	ERJ8GX0R00V	Chip, 0Ω 1/8W	
R15	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R16	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R17	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R21	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R101	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R102	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R103	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R104	D0GF101JA002	Metal Film, 100Ω 1/10W	
R105	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
R107	D0GD912JA003	Metal Film, 9.1kΩ 1/10W	
R108	ERJ6GEYJ563	Chip, 56kΩ 1/10W	
R109	D0GD752JA003	Metal Film, 7.5kΩ 1/10W	
R111	ERJ6GEYJ153	Chip, 15kΩ 1/10W	
R112	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R121	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R131	D0GF392JA002	Metal Film, 3.9kΩ 1/10W	
R201	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R202	D0GD512JA003	Metal Film, 5.1kΩ 1/10W	
R203	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R204	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R211	ERJ6GEYJ101	Chip, 100Ω 1/10W	
R212	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R214	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R215	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R216	ERD25TJ393	Carbon, 39kΩ 1/4W	
R217	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R218	ERDS2TJ102	Carbon, 1kΩ 1/4W	
R221	ERJ6GEYJ2R2	Chip, 2.2Ω 1/10W	
R222	ERJ6GEYJ2R2	Chip, 2.2Ω 1/10W	
R223	ERJ6GEYJ2R2	Chip, 2.2Ω 1/10W	
R224	ERJ6GEYJ2R2	Chip, 2.2Ω 1/10W	
R231	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R232	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R251	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R301	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R302	D0GD512JA003	Metal Film, 5.1kΩ 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R303	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R304	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R311	ERJ6GEYJ101	Chip, 100Ω 1/10W	
R312	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R314	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R315	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R316	ERD25TJ393	Carbon, 39kΩ 1/4W	
R317	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R318	ERDS2TJ102	Carbon, 1kΩ 1/4W	
R321	ERJ6GEYJ2R2	Chip, 2.2Ω 1/10W	
R322	ERJ6GEYJ2R2	Chip, 2.2Ω 1/10W	
R323	ERJ6GEYJ2R2	Chip, 2.2Ω 1/10W	
R324	ERJ6GEYJ2R2	Chip, 2.2Ω 1/10W	
R331	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R332	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R440	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R441	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R442	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R443	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R451	D0GF473JA002	Metal Film, 47kΩ 1/10W	
R452	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R453	D0GF561JA002	Metal Film, 560Ω 1/10W	
R454	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
R455	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R456	D0GF4R7JA002	Metal Film, 4.7Ω 1/10W	
R457	D0GF4R7JA002	Metal Film, 4.7Ω 1/10W	
R458	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R459	D0GF101JA002	Metal Film, 100Ω 1/10W	
R460	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R462	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R473	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R474	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R475	ERJ6GEYJ334	Chip, 330kΩ 1/10W	
R477	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R478	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R480	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R481	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R482	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R483	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R484	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R485	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R486	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R487	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R488	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R489	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R490	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R491	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R492	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R493	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R494	ERJ6GEYJ224	Chip, 220kΩ 1/10W	
R495	D0GF332JA002	Metal Film, 3.3kΩ 1/10W	
R496	ERJ6GEYJ683	Chip, 68kΩ 1/10W	
R497	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R498	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R499	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R502	ERDS2TJ473	Carbon, 47kΩ 1/4W	
R505	ERDS2TJ561	Carbon, 560Ω 1/4W	
R506	ERDS2TJ561	Carbon, 560Ω 1/4W	
R601	D0GD684JA003	Metal Film, 680kΩ 1/10W	
R602	ERJ6GEYJ221	Chip, 220Ω 1/10W	
R603	ERD25TJ102	Carbon, 1kΩ 1/4W	
R604	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R605	ERD25TJ102	Carbon, 1kΩ 1/4W	
R606	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R608	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
R616	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R617	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R618	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R620	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R621	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R622	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R623	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R624	ERJ6GEYJ102	Chip, 1kΩ 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R625	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R626	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R627	D0GF473JA002	Metal Film, 47kΩ 1/10W	
R628	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R629	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R630	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R631	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R632	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R633	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R634	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R635	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R638	ERJ8GEYJ102V	Chip, 1kΩ 1/8W	
R639	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R640	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R641	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R642	ERDS2TJ102	Carbon, 1kΩ 1/4W	
R643	ERJ8GEYJ102V	Chip, 1kΩ 1/8W	
R644	D0GF561JA002	Metal Film, 560Ω 1/10W	
R645	ERDS2TJ102	Carbon, 1kΩ 1/4W	
R646	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R648	ERD25TJ102	Carbon, 1kΩ 1/4W	
R649	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R650	ERD25TJ102	Carbon, 1kΩ 1/4W	
R652	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R653	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R654	D0GF222JA002	Metal Film, 2.2kΩ 1/10W	
R655	ERJ6GEYJ184	Chip, 180kΩ 1/10W	
R657	ERD25TJ104	Carbon, 100kΩ 1/4W	
R658	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R660	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R670	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R671	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R672	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R673	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R675	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R677	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R678	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R691	ERG1SJ101P	Metal Oxid, 100Ω 1W	
R692	ERG1SJ101P	Metal Oxid, 100Ω 1W	
R701	ERG1SJ151P	Metal Oxid, 150Ω 1W	
R703	ERDS2TJ681	Carbon, 680Ω 1/4W	
R704	ERDS2TJ102	Carbon, 1kΩ 1/4W	
R705	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R706	ERDS2TJ271	Carbon, 270Ω 1/4W	
R709	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R710	D0GF473JA002	Chip, 47kΩ 1/16W	
R751	ERJ6ENF2702V	Chip, 27kΩ 1/10W	
R752	ERJ6ENF2703V	Chip, 270kΩ 1/10W	
R753	ERJ6ENF4302V	Chip, 43kΩ 1/10W	
R754	ERJ6ENF4701V	Chip, 4.7KΩ 1/10W	
R771	D0GF561JA002	Metal Film, 560Ω 1/10W	
R778	D0GF204JA002	Metal Film, 200kΩ 1/10W	
R779	D0GF204JA002	Metal Film, 200kΩ 1/10W	
R780	D0GF204JA002	Metal Film, 200kΩ 1/10W	
R781	D0GF204JA002	Metal Film, 200kΩ 1/10W	
R782	D0GF472JA002	Metal Film, 4.7kΩ 1/10W	
R783	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R784	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R786	ERG1SJ680	Metal Oxid, 68Ω 1W	
CONNECTORs			
CN501	YEAEK623214S	Connector, 14P	
CN602	K1MN03A00001	Connector, 3P	
CN771	YEAE012462	Connector, 10P/6P	
CN772	YEAE012463	Connector, 12P	
COILs			
L52	YELTBLM21A10	Coil	
L231	YETQ016F001	Coil	
L451	YELTBLM21A10	Coil	
L452	YELTBLM21B10	Coil	

CQ-TS0920AB

Ref. No.	Part No.	Part Name & Description	Remarks
L471	YELTBLM21B10	Coil	
L501	YELTBLM21A10	Coil	
L601	YELTBLM21A10	Coil	
L602	YELTBLM21A10	Coil	
L603	YELTBLM21A10	Coil	
L604	YELTBLM21A10	Coil	
R471	YELTBLM21A10	Coil	
CRYSTALs			
XL451	YEXL49U072TA	Crystal	
XL471	YEXL49U0433T	Crystal	
XL601	H0A327200019	Crystal	
XL602	YEXLCSA1258M	Crystal	
LAMP			
Z51	J0LE00000002	ZNR	
FILTER			
LPF51	YEXC07T009	Filter	
THERMISTER			
R23	D4DA94R70006	Thermister	
[E8746C] CD Servo Block			
IC's and TRANSISTORs			
IC101	C1BB00000173	IC	
IC201	MN662748RPMF	IC	
IC401	MN101C117AF	IC	
IC601	C0GBY0000004	IC	
IC901	C0GBY0000003	IC	
Q1	YEADPS1101W	Transistor	
Q3	YEADPS1101W	Transistor	
Q6	YEADPS1101W	Transistor	
Q101	2SB766ATX	Transistor	
Q451	YEANC113ZKTX	Transistor	
DIODEs			
D1	YEADAN1102W	Diode	
D3	YEADAN1102W	Diode	
D6	YEADAN1102W	Diode	
D201	YEAD1SS355T1	Diode	
D401	MA151WKTX	Diode	
D601	YEAD1SS355T1	Diode	
CAPACITORs			
C101	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C102	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C103	F3H0J107A001	Ceramic, 100µF 6.3WV	
C104	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C105	ECSH0JY475CR	Tantalum, 4.7µF 6.3WV	
C106	F1H1E273A011	Ceramic, 0.027µF 25WV	
C107	F1H1H152A201	Ceramic, 0.0015µF 50WV	
C108	YECUZ1H472KX	Ceramic, 0.0047µF 50WV	
C109	YECUZ1H102KX	Ceramic, 0.001µF 50WV	
C110	YECUZ1H102KX	Ceramic, 0.001µF 50WV	
C111	YECSW1A106MA	Tantalum, 10µF 10WV	
C112	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C113	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C115	YECUZ1H102KX	Ceramic, 0.001µF 50WV	
C116	YECUZ1H102KX	Ceramic, 0.001µF 50WV	
C117	YECUS1A105KX	Ceramic, 1µF 10WV	
C118	F1H1H681A201	Ceramic, 680PF 50WV	
C119	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C120	YECUZ1H561KX	Ceramic, 560PF 50WV	
C121	YECUZ1E123KX	Ceramic, 0.012µF 25WV	
C122	YECUZ1C104KX	Ceramic, 0.1µF 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C133	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C145	YECUZ1A124KX	Ceramic, 0.12µF 10WV	
C201	YECUZ1E123KX	Ceramic, 0.012µF 25WV	
C203	YECUS1C334KX	Ceramic, 0.33µF 16WV	
C204	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C205	YECSW1A106MA	Tantalum, 10µF 10WV	
C206	F1H1A4740004	Ceramic, 0.47µF 10WV	
C208	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C209	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C210	YECSW1A106MA	Tantalum, 10µF 10WV	
C214	YECUS1C334KX	Ceramic, 0.33µF 16WV	
C451	F1H1A4740004	Ceramic, 0.47µF 50WV	
C453	YECUZ1H103KX	Ceramic, 0.01µF 50WV	
C601	YECUS1C334KX	Ceramic, 0.33µF 16WV	
C602	ECEV1CA470SP	Electrolytic, 47µF 16WV	
C603	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C605	YECUS1A105KX	Ceramic, 1µF 10WV	
C606	YECUZ1H272KX	Ceramic, 0.0027µF 50WV	
C901	YECUS1C334KX	Ceramic, 0.33µF 16WV	
C903	YECUZ1C333KX	Ceramic, 0.033µF 16WV	
RESISTORs			
J403	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
J423	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R101	ERJ3GEYJ101V	Chip, 100Ω 1/16W	
R102	ERJ14YJ330H	Chip, 33Ω 1/4W	
R103	ERJ3GEYJ683V	Chip, 68kΩ 1/16W	
R104	ERJ3GEYJ683V	Chip, 68kΩ 1/16W	
R105	ERJ3GEYJ333V	Chip, 33kΩ 1/16W	
R106	ERJ3GEYJ184V	Chip, 180kΩ 1/16W	
R107	ERJ3GEYJ184V	Chip, 180kΩ 1/16W	
R108	ERJ3GEYJ823V	Chip, 82kΩ 1/16W	
R109	ERJ3GEYJ334V	Chip, 330kΩ 1/16W	
R110	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R111	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R112	ERJ3GEYJ393V	Chip, 39kΩ 1/16W	
R113	ERJ3GEYJ333V	Chip, 33kΩ 1/16W	
R114	ERJ3GEYJ153V	Chip, 15kΩ 1/16W	
R119	ERJ3GEYJ184V	Chip, 180kΩ 1/16W	
R120	ERJ3GEYJ333V	Chip, 33kΩ 1/16W	
R147	ERJ3GEYJ153V	Chip, 15kΩ 1/16W	
R207	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R208	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R209	ERJ3GEYJ391V	Chip, 390Ω 1/16W	
R210	ERJ3GEYJ334V	Chip, 330kΩ 1/16W	
R211	ERJ3GEYJ124V	Chip, 120kΩ 1/16W	
R213	ERJ3GEYJ470V	Chip, 47Ω 1/16W	
R214	ERJ3GEYJ272V	Chip, 2.7kΩ 1/16W	
R215	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R401	ERJ3GEYJ563V	Chip, 56kΩ 1/16W	
R402	ERJ3GEYJ563V	Chip, 56kΩ 1/16W	
R404	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R411	ERJ3GEYJ334V	Chip, 330kΩ 1/16W	
R454	ERJ6GEYJ271	Chip, 270Ω 1/10W	
R456	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R461	ERJ3GEYJ823V	Chip, 82kΩ 1/16W	
R463	ERJ3GEYJ823V	Chip, 82kΩ 1/16W	
R466	ERJ3GEYJ823V	Chip, 82kΩ 1/16W	
R471	ERJ8GEYJ121V	Chip, 120Ω 1/8W	
R473	ERJ8GEYJ121V	Chip, 120Ω 1/8W	
R476	ERJ8GEYJ121V	Chip, 120Ω 1/8W	
R477	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
R481	ERJ3GEYJ104V	Chip, 100kΩ 1/16W	
R601	ERJ3GEYJ123V	Chip, 12kΩ 1/16W	
R602	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R603	ERJ3GEYJ273V	Chip, 27kΩ 1/16W	
R604	ERJ3GEYJ124V	Chip, 120kΩ 1/16W	
R605	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R606	ERJ3GEYJ822V	Chip, 8.2kΩ 1/16W	
R607	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R608	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R609	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R610	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R613	ERJ3GEYJ122V	Chip, 1.2kΩ 1/16W	
R901	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R902	ERJ3GEYJ333V	Chip, 33kΩ 1/16W	
R903	ERJ3GEYJ122V	Chip, 1.2kΩ 1/16W	
R924	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R934	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
CONNECTORs			
CN101	YEAESFW15R2E	Connector, 15P	
CN402	K1MN14B00028	Connector, 14P	
CN901	K1MN05B00010	Connector, 5P	
CN902	K1MN05B00009	Connector, 5P	
SWITCHEs			
SW2	ESE102MH2	Switch	
SW4	YEAS09275	Switch	
COIL			
L451	YELTBLM21A10	Coil	
CRYSTALs			
XL201	H2D169500005	Crystal	
XL451	YEXLSTCC419T	Crystal	
[E8786A] Display Block			
IC's and TRANSISTORs			
IC600	C2CBJG000154	IC	
IC700	AN8065SE1	IC	
IC800	YEAMPA0051AM	IC	
IC801	C1EB00000017	IC	
Q500	B1ABCF000042	Transistor	
Q501	YEANA114EKTX	Transistor	
Q502	YEANA114EKTX	Transistor	
Q503	YEANA114EKTX	Transistor	
Q504	YEANA114EKTX	Transistor	
Q505	B1ABCF000042	Transistor	
Q506	YEANA114EKTX	Transistor	
Q530	B1GBCFNN0005	Transistor	
Q700	2SD1273	Transistor	
Q701	YEANBP1F3PT	Transistor	
Q702	B1GBCFJN0005	Transistor	
Q705	YEANA143ZKTX	Transistor	
Q706	B1GBCFNN0005	Transistor	
Q707	YEANA144EKTX	Transistor	
Q708	B1GBCFNN0005	Transistor	
Q709	YEANBP1F3PT	Transistor	
Q710	B1GBCFNN0005	Transistor	
Q713	2SD1273	Transistor	
Q800	B1GBCFNN0005	Transistor	
DIODEs			
D500	YEAD1SS355T1	Diode	
D501	YEAD1SS355T1	Diode	
D502	YEAD1SS355T1	Diode	
D503	YEAD1SS355T1	Diode	
D504	YEAD1SS355T1	Diode	
D506	MA8056LMHTX	Diode	
D507	MA8056LMHTX	Diode	
D508	MA8056LMHTX	Diode	
D509	MA8056LMHTX	Diode	
D510	YEAD1SS355T1	Diode	
D511	MA8056LMHTX	Diode	
D512	MA153TX	Diode	
D521	MA153TX	Diode	
D530	MA8068MTX	Diode	
D534	YEADSR1544TL	Diode	

Ref. No.	Part No.	Part Name & Description	Remarks
D535	MA153TX	Diode	
D649	YEAD1SS355T1	Diode	
D650	YEAD1SS355T1	Diode	
D651	YEAD1SS355T1	Diode	
D652	YEAD1SS355T1	Diode	
D700	YEAD30D2FC6	Diode	
D701	YEADSR1544TL	Diode	
D702	MA8051MTX	Diode	
D703	YEAD1SS355T1	Diode	
D704	YEAD1SS355T1	Diode	
D707	YEADRD62M2T1	Diode	
D800	YEADRD18M2T1	Diode	
D801	YEADRD13P2T1	Diode	
D802	YEADRD13P2T1	Diode	
D803	YEAD1SS355T1	Diode	
D808	YEADRD18M2T1	Diode	
CAPACITORs			
C500	F1J1H102A034	Ceramic, 0.001µF 50WV	
C501	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C502	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C503	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C504	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C505	YECUS1H473KX	Ceramic, 0.047µF 50WV	
C506	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C511	YECUV2A102KX	Ceramic, 0.001µF 100WV	
C513	YECUV1H221JM	Ceramic, 220PF 50WV	
C514	YECUS1H471JC	Ceramic, 470PF 50WV	
C515	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C523	YECUV2A103KX	Ceramic, 0.01µF 100WV	
C524	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C531	YECUV1H221JM	Ceramic, 220PF 50WV	
C532	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C533	YECUS1H471JC	Ceramic, 470PF 50WV	
C534	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C601	YECUS1H561JM	Ceramic, 560PF 50WV	
C608	F1J1H180A034	Ceramic, 18PF 50WV	
C609	F1J1H180A034	Ceramic, 18PF 50WV	
C611	YECUS1H220JC	Ceramic, 22PF 50WV	
C613	YECUS1H220JC	Ceramic, 22PF 50WV	
C631	YECUS1H220JC	Ceramic, 22PF 50WV	
C651	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C660	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C690	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C691	YECUS1H473KX	Ceramic, 0.047µF 50WV	
C701	ECA1CM102B	Electrolytic, 1000µF 16WV	
C702	YECUV1H221JM	Ceramic, 220PF 50WV	
C704	ECEA1HKA4R7	Electrolytic, 4.7µF 50WV	
C705	ECEA1CKA101	Electrolytic, 100µF 16WV	
C706	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C708	ECEA1HKA4R7	Electrolytic, 4.7µF 50WV	
C712	ECEA1CKA101	Electrolytic, 100µF 16WV	
C714	ECEA1CKA101	Electrolytic, 100µF 16WV	
C715	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C718	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C719	ECA1CM221B	Electrolytic, 220µF 16WV	
C720	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C723	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C724	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C800	YECUS1H221JC	Ceramic, 220PF 50WV	
C801	YECUS1H221JC	Ceramic, 220PF 50WV	
C802	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C803	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C804	YECUS1H221JC	Ceramic, 220PF 50WV	
RESISTORs			
L702	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R1	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R4	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R15	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R16	ERJ6GEY0R00	Chip, 0Ω 1/10W	

CQ-TS0920AB

Ref. No.	Part No.	Part Name & Description	Remarks
R18	ERJ6GEY0RO0	Chip, 0Ω 1/10W	
R23	ERDS1FVJ1R0	Carbon, 1.0Ω 1/2W	
R24	ERJ6GEY0RO0	Chip, 0Ω 1/10W	
R500	D0GD432JA003	Metal Film, 4.3kΩ 1/10W	
R501	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R502	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R503	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R504	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R505	D0GD512JA003	Metal Film, 5.1kΩ 1/10W	
R506	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R507	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R510	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R511	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R515	D1BD30020001	Chip, 30kΩ 1/10W	
R516	ERA6YED103V	Metal Film, 10kΩ 1/10W	
R517	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R521	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R522	ERJ6GEY0RO0	Chip, 0Ω 1/10W	
R523	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R525	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R526	ERA6YED472V	Metal Film, 4.7kΩ 1/10W	
R527	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R530	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R531	D1BD30020001	Chip, 30kΩ 1/10W	
R532	ERA6YED103V	Metal Film, 10kΩ 1/10W	
R533	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R601	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R602	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R605	D0GD220JA003	Metal Film, 22Ω 1/10W	
R608	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R610	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R611	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R623	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R624	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R625	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R630	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R631	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R636	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R637	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R638	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R639	ERJ6GEYJ101	Chip, 100Ω 1/10W	
R641	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R647	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R649	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R650	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R651	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R659	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R661	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R663	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R664	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R665	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R666	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R667	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R668	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R669	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R670	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R676	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R688	ERA6YKD274V	Metal Film, 270kΩ 1/10W	
R689	D1BD47020001	Metal Film, 47kΩ 1/10W	
R690	ERJ6GEYJ471	Chip, 470Ω 1/10W	
R691	D0GD220JA003	Metal Film, 22Ω 1/10W	
R692	D0GD220JA003	Metal Film, 22Ω 1/10W	
R693	D0GD220JA003	Metal Film, 22Ω 1/10W	
R695	D0GD220JA003	Metal Film, 22Ω 1/10W	
R700	ERDS1FVJ2R2	Carbon, 2.2Ω 1W	
R701	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R702	ERJ6GEYJ182	Chip, 1.8kΩ 1/10W	
R703	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R704	YER122P2702D	Metal Film, 27kΩ 1/10W	
R705	D0GD1R0JA003	Metal Film, 1Ω 1/10W	
R713	ERA6YKD274V	Metal Film, 270kΩ 1/10W	
R714	ERA6YED433V	Metal Film, 43kΩ 1/10W	
R715	ERJ6GEY0R00	Chip, 0Ω 1/10W	

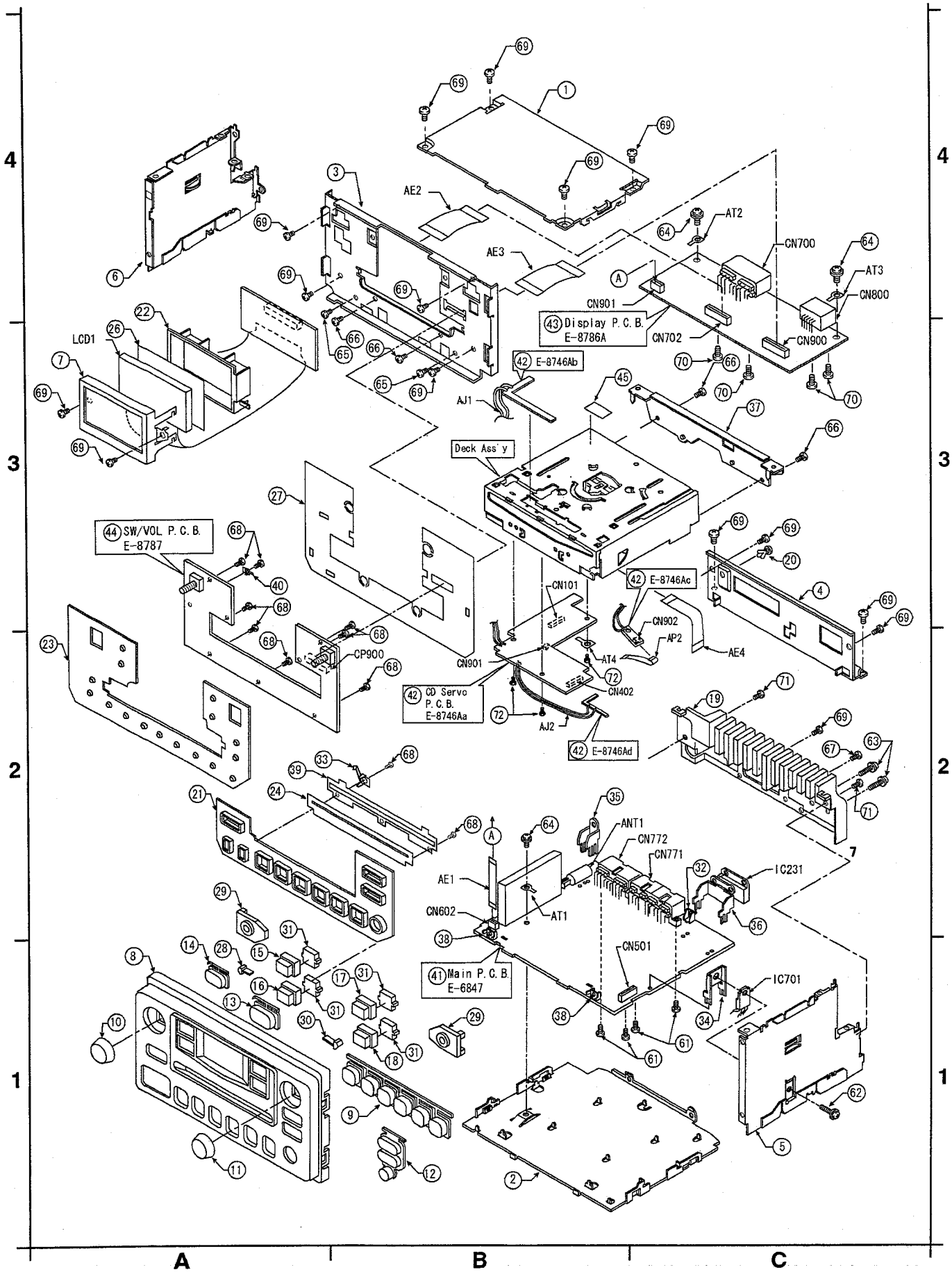
Ref. No.	Part No.	Part Name & Description	Remarks
R716	ERA6YED472V	Metal Film, 4.7kΩ 1/10W	
R717	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R800	ERJ14YJ101H	Chip, 100Ω 1/4W	
R801	ERJ14YJ101H	Chip, 100Ω 1/4W	
R803	ERG1SJ101E	Metal Oxid, 100Ω 1W	
R804	ERG1SJ101E	Metal Oxid, 100Ω 1W	
R805	D0GD391JA003	Metal Film, 390Ω 1/10W	
R806	D0GD391JA003	Metal Film, 390Ω 1/10W	
R807	ERJ6GEYJ562	Chip, 5.6kΩ 1/10W	
R810	ERJ6GEYJ562	Chip, 5.6kΩ 1/10W	
R811	ERJ6GEYJ271	Chip, 270Ω 1/10W	
R812	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
CONNECTORs			
CN700	YEAE012029	Connector, 18P	
CN702	K1MN20A00020	Connector, 20P	
CN800	YEAE012345	Connector, 8P	
CN900	K1MN20A00020	Connector, 20P	
CN901	K1MN03A00001	Connector, 3P	
COILs			
L500	YELTBLM21A10	Coil	
L501	YELTBLM21A10	Coil	
L502	YELTBLM21A10	Coil	
L503	YELTBLM21A10	Coil	
L504	YELTBLM21A10	Coil	
L505	YELTBLM21A10	Coil	
L691	YELT03N100KT	Coil	
L700	YETQ012G157	Coil	
L704	YELTBLM21A10	Coil	
L705	YELTBLM21A10	Coil	
CRYSTALs			
XL600	YEXLMC60327	Crystal	
XL601	YEXL5F10000T	Crystal	
FILTERs			
ZL800	YECCL51R206T	Filter	
ZL801	YECCL51R206T	Filter	
NETWORK RESISTORs			
R603	EXBV8V102JV	1k Ω	
R607	EXBV8V102JV	1k Ω	
R614	EXBV8V472JV	4.7kΩ	
R616	EXBV8V102JV	1k Ω	
R626	EXBV8V102JV	1k Ω	
R632	EXBV8V102JV	1k Ω	
R642	EXBV8V102JV	1k Ω	
R653	EXBV8V472JV	4.7kΩ	
R655	EXBV8V102JV	1k Ω	
[E8787] SW/VOL. Block			
DIODEs			
D901	YEADSEC1401T	Diode	
D902	YEADSEC1401T	Diode	
D903	YEADSEC1401T	Diode	
D904	YEADSEC1401T	Diode	
D905	YEADSEC1401T	Diode	
D906	YEADSEC1401T	Diode	
D907	YEADSEC1401T	Diode	
D908	YEADSEC1401T	Diode	
D909	YEADSEC1401T	Diode	
D910	YEADSEC1401T	Diode	
D911	YEADSEC1401T	Diode	
D912	YEADSEC1401T	Diode	
D913	YEADSEC1401T	Diode	

Ref. No.	Part No.	Part Name & Description	Remarks
D914	YEADSEC1401T	Diode	
D915	YEADSEC1401T	Diode	
D916	YEADSEC1401T	Diode	
D917	YEADSEC1401T	Diode	
D918	YEADSEC1401T	Diode	
D919	YEADSEC1401T	Diode	
D920	YEADSEC1401T	Diode	
D921	YEADSEC1401T	Diode	
D922	YEADSEC1401T	Diode	
D923	YEADSEC1401T	Diode	
D924	YEADSEC1401T	Diode	
CAPACITORs			
C901	YECUS1H101JM	Ceramic, 100PF 50WV	
C902	YECUS1H101JM	Ceramic, 100PF 50WV	
C903	YECUS1H101JM	Ceramic, 100PF 50WV	
C904	YECUS1H101JM	Ceramic, 100PF 50WV	
RESISTORs			
R901	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R902	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R903	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R904	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R906	D0GF331JA002	Metal Film, 330Ω 1/10W	
R907	D0GF221JA002	Metal Film, 220Ω 1/10W	
R908	D0GF221JA002	Metal Film, 220Ω 1/10W	
R909	D0GF331JA002	Metal Film, 330Ω 1/10W	
R910	D0GF331JA002	Metal Film, 330Ω 1/10W	
R911	D0GF561JA002	Metal Film, 560Ω 1/10W	
R912	D0GF331JA002	Metal Film, 330Ω 1/10W	
R913	D0GF331JA002	Metal Film, 330Ω 1/10W	
R923	D0GF331JA002	Metal Film, 330Ω 1/10W	
R925	D0GF331JA002	Metal Film, 330Ω 1/10W	
R926	D0GF331JA002	Metal Film, 330Ω 1/10W	
CONNECTOR			
CP900	K1MN20A00021	Connector, 20P	
VARIABLE RESISTORs			
VR900	K9AA015B0012	Variablr resistor	
VR901	K9AA009B0004	Variablr resistor	
LCD			
LCD1	L5ADAHE00001	LCD	
Mechanical Parts			
MISCELLANEOUS			
ANT1	YEAA10066	Antenna Receplacle	
AE1	K9ZZ00000388	Flat Cable, 3P	
AE2	YEAES20B070A	Flat Cable, 20P	
AE3	K9ZZ00000215	Flat Cable, 20P	
AE4	K9ZZ00000039	Flat Cable, 14P	
AJ1	YEAJ071287	Cord w/Plug	
AJ2	YEAJ071285	Cord w/Plug	
AP2	YEAP2711	FPC	
AT1-3	YEAT03346A	Terminal	
AT4	YEAT05014	Terminal	
1	YEFA031690	Upper Cover	(4-B)
2	YEFA05653	Bottom Cover	(1-B)
3	YEFA07492	Front Plate	(4-B)
4	YEFA08504	Rear Plate	(3-C)
5	YEFA09657	Side Plate (R)	(1-C)
6	YEFA09658	Side Plate (L)	(4-A)
7	YEFA131449	Case, LCD	(3-A)
8	YEFC027175	Escutcheon Ass'y	(1-A)
9	YEFE135805	Button, RESET	(1-B)
10	YEFE02337	Knob, VOL.	(1-A)

Ref. No.	Part No.	Part Name & Description	Remarks
11	YEFE02337	Knob, CONT.	(1-A)
12	YEFE135806	Button Block	(1-B)
13	YEFE135807	Button, TUNE	(1-A)
14	YEFE135808	Button, EJECT	(1-A)
15	YEFE135809	Button, AF	(1-A)
16	YEFE135810	Button, TA	(1-A)
17	YEFE135811	Button, PTY	(1-B)
18	YEFE135812	Button, AST	(1-B)
19	YEFF011006	Heat Sink	(3-C)
20	YEFJ05030	Color Rivet	(3-C)
21	YEFK06878	Holder, Button	(2-A)
22	YEFK06879	Holder, LCD	(3-A)
23	YEFR07114	Rubber Contact	(2-A)
24	YEFS01936A	Pad	(2-B)
26	YEFV021645	Optical Shade	(3-A)
27	YEFV011978	Insulator	(3-B)
28	YEFX0011982	Transparent Plate	(1-A)
29	YEFX0011983	Transparent Plate	(2-A) (1-B)
30	YEFX0011986	Transparent Plate	(1-A)
31	YEFX0011987	Transparent Plate	(1-A) (1-B)
32	YEFX0213797	Bracket, GND	(3-C)
33	YEFX0213919	Bracket, GND	(2-B)
34	YEFX0214146	Bracket, IC701	(1-C)
35	YEFX0214153	Bracket	(2-B)
36	YEFX0214581	Bracket, Power IC	(3-C)
37	YEFX0214612	Bracket, Deck	(3-C)
38	YEFX0214855	Bracket, GND	(1-B)
39	YEFX233520	Bracket	(2-B)
40	YEFX9991346	Spring, GND	(3-A)
41	YEP0PT6847A0	PCB w/Component	RTL
42	YEP0PT8746B0	PCB w/Component	RTL
43	YEP0PT8786D0	PCB w/Component	RTL
44	YEP0PT8787A0	PCB w/Component	RTL
45	YEFM031105	Laser Seal	(3-B)
61	YEJT03141	Tapping Screw, M3x8mm	
62	YEJT03009	Screw, M3x8mm	
63	YEJT03013	Tapping Screw, M3x12mm	
64	YEJT03015	Tapping Screw, M3x6mm	
65	YEJT03131	Tapping Screw, M2.6x5mm	
66	YEJT03263	Tapping Screw, M2.8x5mm	
67	XSB26+6FX	Screw, M2.6x6mm	
68	XTB2+6GFX	Tapping Screw, M2x6mm	
69	XTB3+6FFX	Tapping Screw, M3x6mm	
70	XTB3+6GFN	Tapping Screw, M3x6mm	
71	XTB3+8FFX	Screw, M3x8mm	
72	XYN2+J4FX	Screw, M2x4mm	

CQ-TS0920AB

10 EXPLODED VIEW (Unit)



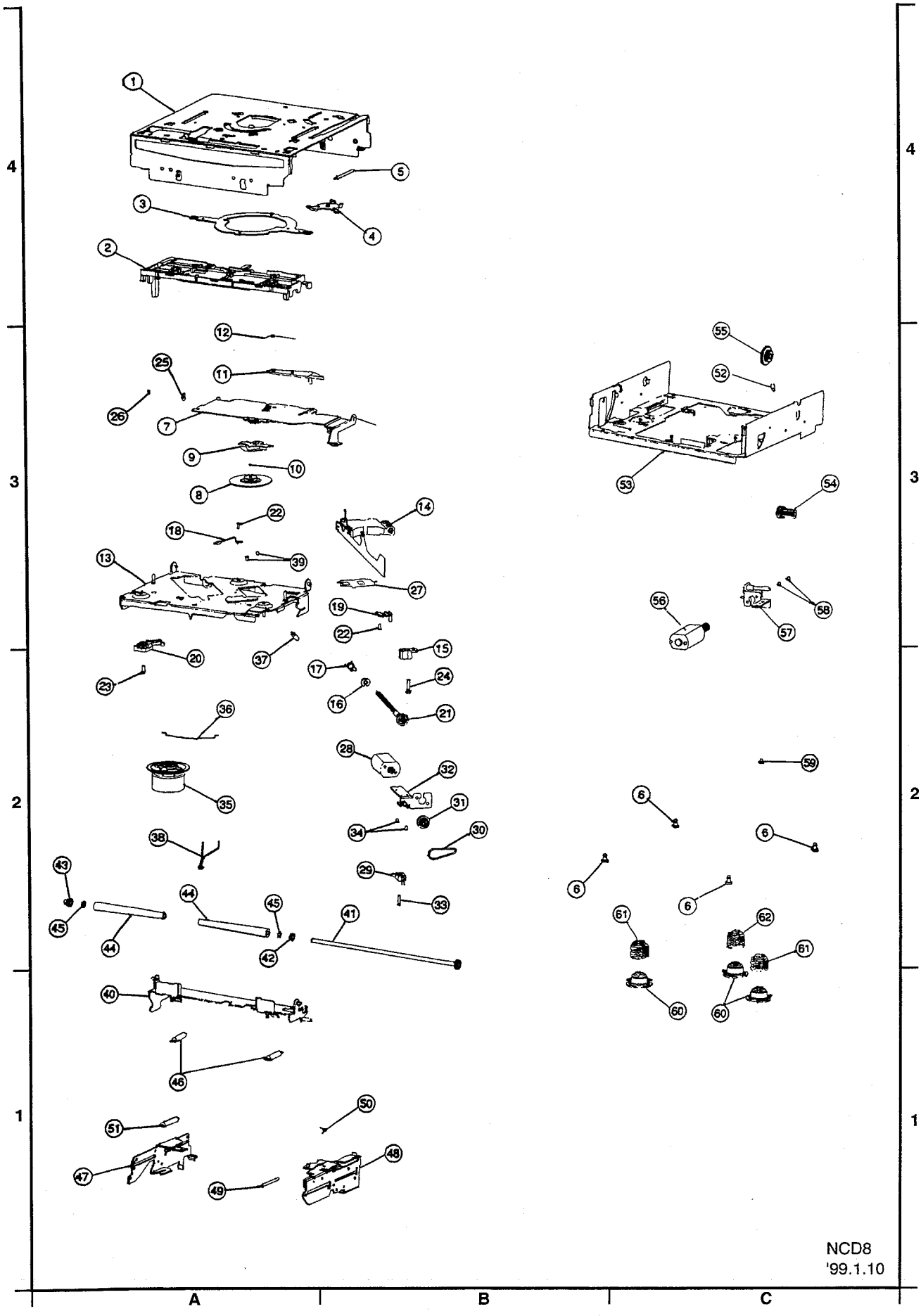
11 CD PLAYER PARTS

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
1	YGFA011781	Upper Chassis	(4-A)
2	YGFX236153	Disk Guide	(4-A)
3	YGFX0462017	Link Lever	(4-A)
4	YGFX0462018	Detection Lever (2)	(4-B)
5	YGFX0052357	Detection Lever (2) Spring	(4-B)
6	YEJT03131	Tapping Screw, 2.6 mm* 5mm	(2-C) (2-B)
7	YGFX249461	Clamp Arm	(3-A)
8	YGFX007640	Clamper	(3-A)
9	YGFX0052363	Clamper Spring Plate	(3-A)
10	YEFX999957	Ball Bearing	(3-A)
11	YGFX0462013	Detection Lever (1)	(3-A)
12	YGFX0052352	Detection Lever (1) Spring	(3-A)
13	YGFA011795	Suspension Chassis Ass´y	(3-A)
14	YESFD13006	Optical Pick-up Ass´y	(3-B)
15	YEFW04150	Feed Screw Housing A	(2-B)
16	YEFW04137A	Feed Screw Housing B	(2-B)
17	YGFX0052386	Thrust Adjusting Spring	(2-B)
18	YEFX236144B	Traverse Guide	(3-A)
19	YGFX9992027	Feed Screw Carrier	(3-B)
20	YEFX9991458A	FPC Holder	(2-A)
21	YGJT03240	Traverse Gear Ass´y	(2-B)
22	YEJS02037	Screw, (Pick-up)	(3-A) (3-B)
23	XYN2+C5FX	Screw, (FPC) 2mm * 5mm	(2-A)
24	XYN2+J10FX	Screw, (Housing) 2mm * 10m	(2-B)
25	YEFX0051590	Spring Washer	(3-A)
26	XUC15V	Retaining Ring, 1.5mm	(3-A)
27	YEFX9991806A	Sealed Plate	(3-B)
28	YGP0FX3503	Traverse Motor Ass´y	(2-B)
29	YEAS23151A	Inner Switch	(2-B)
30	YEFR03080	Rubber Belt	(2-B)
31	YEFX026124A	Idler Pulley	(2-B)
32	YGFX018611	Motor Bracket Ass´y	(2-B)
33	YEJS02018FZ	Screw, (SW)	(2-B)
34	XQN2+A25FX	Screw, 2mm * 25mm	(2-B)
35	YGP0FX3529	Spindle Motor Ass´y	(2-A)
36	YEFX0051991C	Spring (Motor)	(2-A)
37	YGFX0052353	Clamper Spring	(2-A)
38	YGAJ071286	Motor Cable	(2-A)
39	XQN17+A25FX	Screw, 1.7mm * 25mm	(3-A)
40	YGFX0462019	Feeder Arm Ass´y	(1-A)
41	YGP0FX3507	Roller Gear Ass´y	(2-B)
42	YEFW04144	Roller Shaft Collar (1)	(2-A)
43	YEFW04138	Roller Shaft Collar (2)	(2-A)
44	YEFX218282	Rubber Roller	(2-A)
45	YEJW04128	Washer	(2-A)
46	YGFX0052362	Spring (Feeder Arm)	(1-A)
47	YGFX0462015	Suspension Lock Plate (L)	(1-A)
48	YGP0FX3504	Suspension Lock Plate (R) Ass´y	(1-B)
49	YGFX0052355	Spring (Rack Gear)	(1-A)
50	YGFX0052356	Spring (Rack Lock Lever)	(1-B)
51	YGFX0052360	Spring (Suspension Lock Plate L)	(1-A)
52	YGFX0052361	Spring (Lock Plate)	(3-C)
53	YGFA011779	Bottom Chassis Ass´y	(3-C)
54	YGFX003940	Driving Gear (1)	(3-C)
55	YGFX003941	Driving Gear (2)	(3-C)
56	YGP0FX3506	Loding Motor Ass´y	(3-C)
57	YGFX018605	Loding Motor Bracket Ass´y	(3-C)
58	XQN2+A25FX	Screw, (Motor) 2mm * 25mm	(3-C)
59	YEJS06188	Screw	(2-C)
60	YEFS04693	Oil Dumper	(1-C)
61	YGFX0052358	Suspension Spring (A)	(2-C)
62	YGFX0052359	Suspension Spring (B)	(2-C)

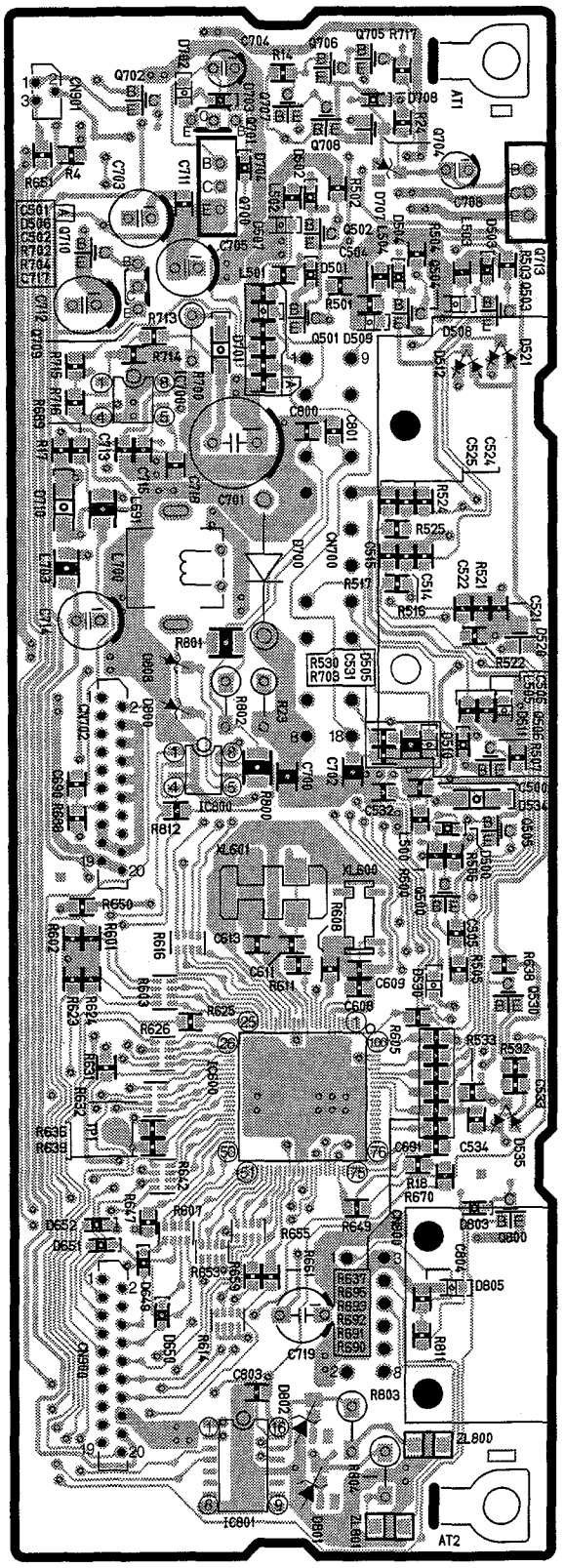
CQ-TS0920AB

12 EXPLODED VIEW (CD Deck)

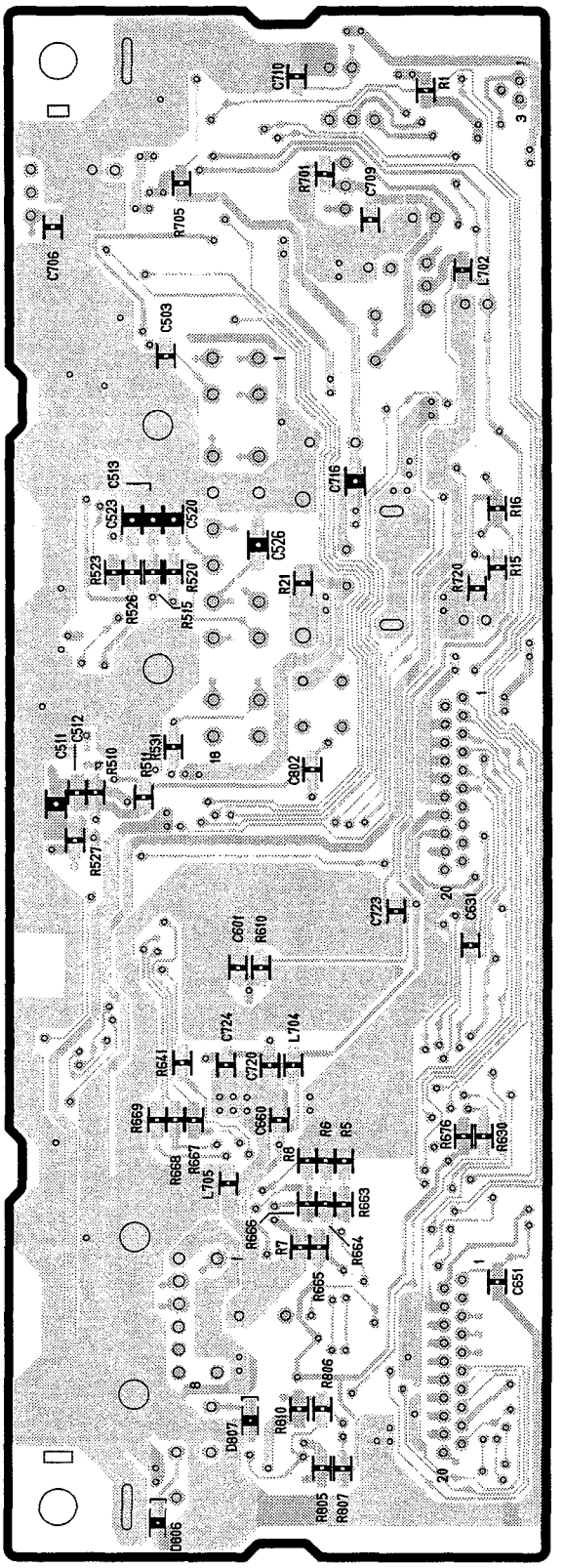


13 WIRING DIAGRAM

13.1. Display Block

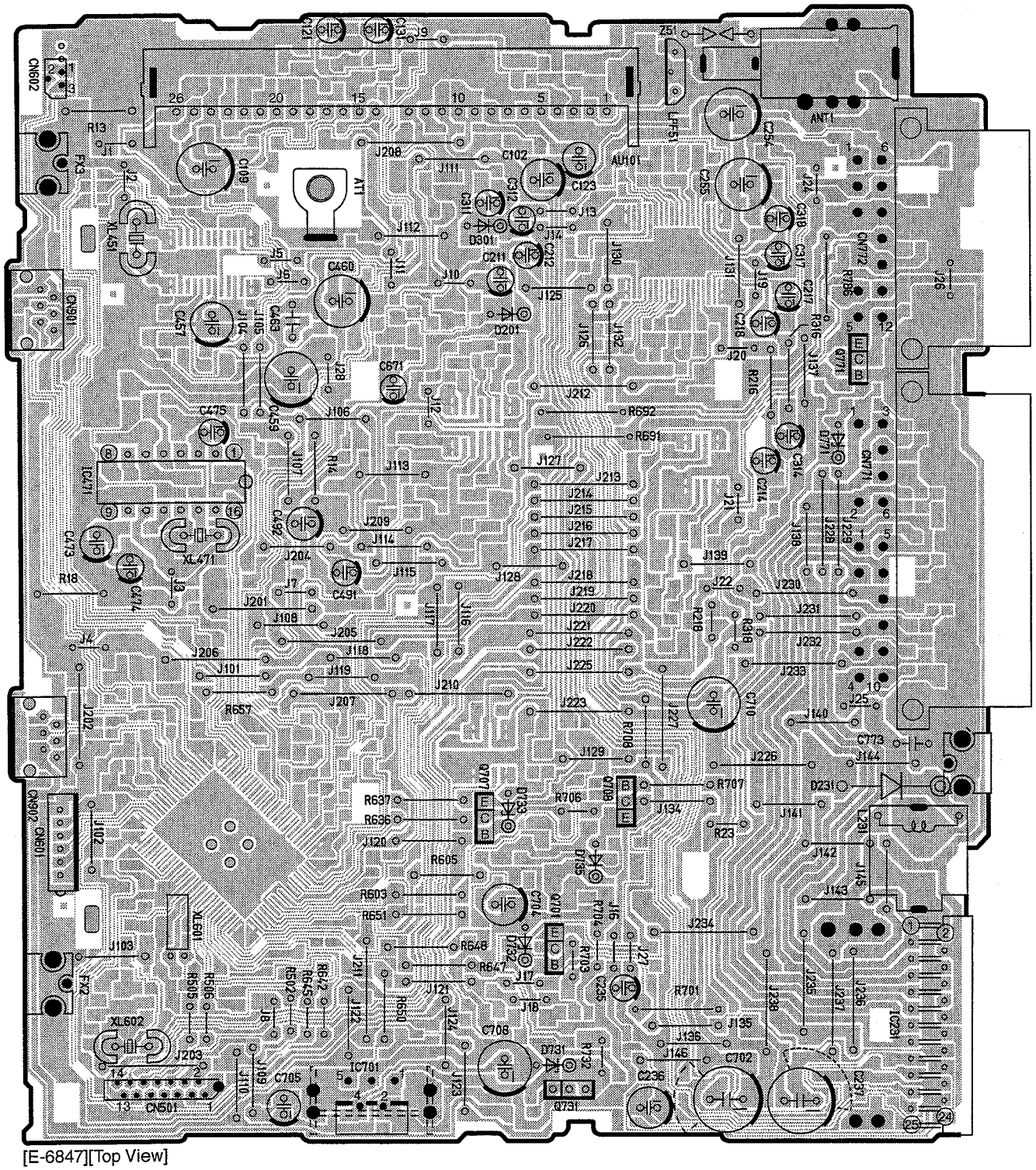


[E-8786Aa][Top View]



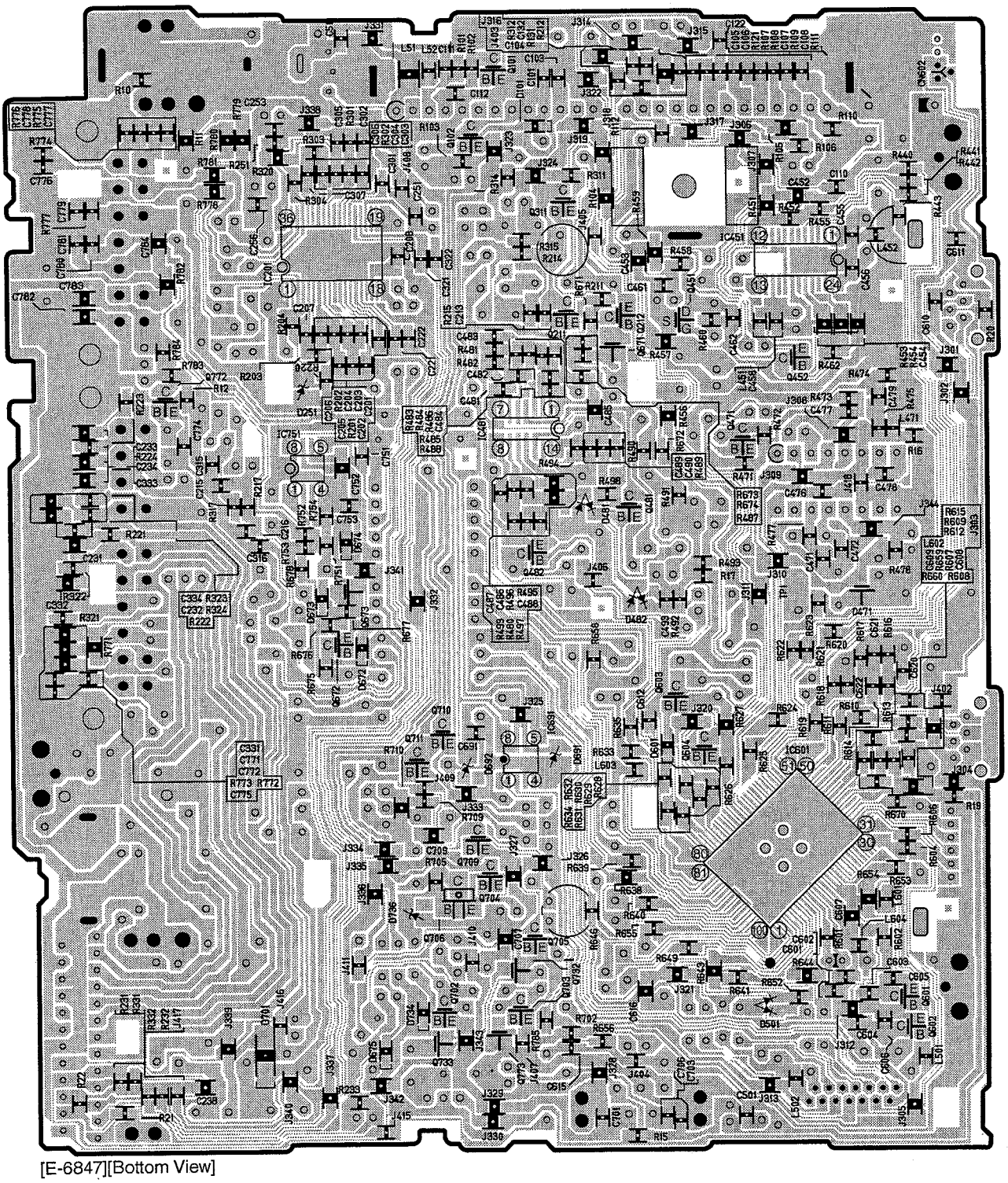
[E-8786Aa][Bottom View]

13.2. Main Block -1 (Top View)



[E-6847][Top View]

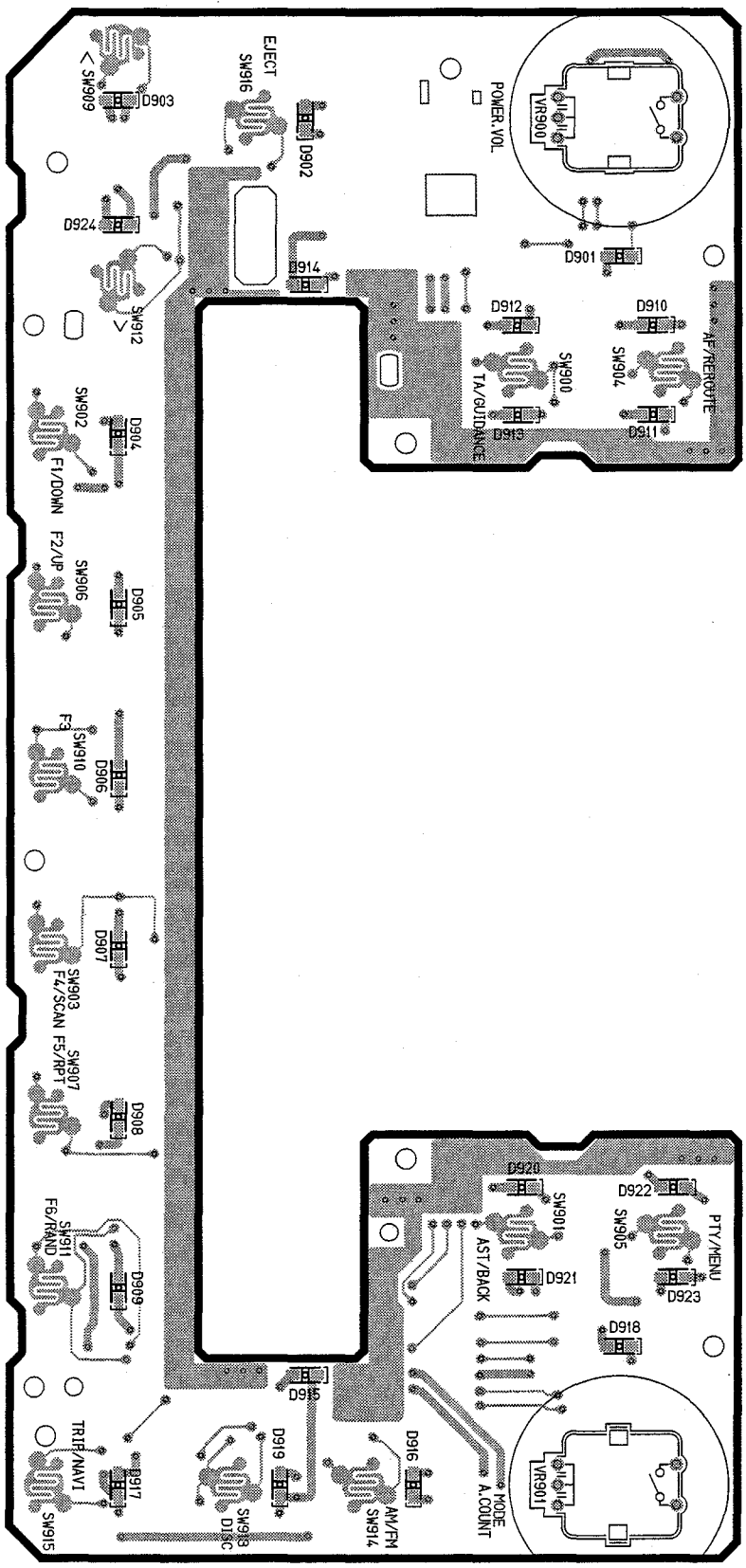
13.3. Main Block -2 (Bottom View)



[E-6847][Bottom View]

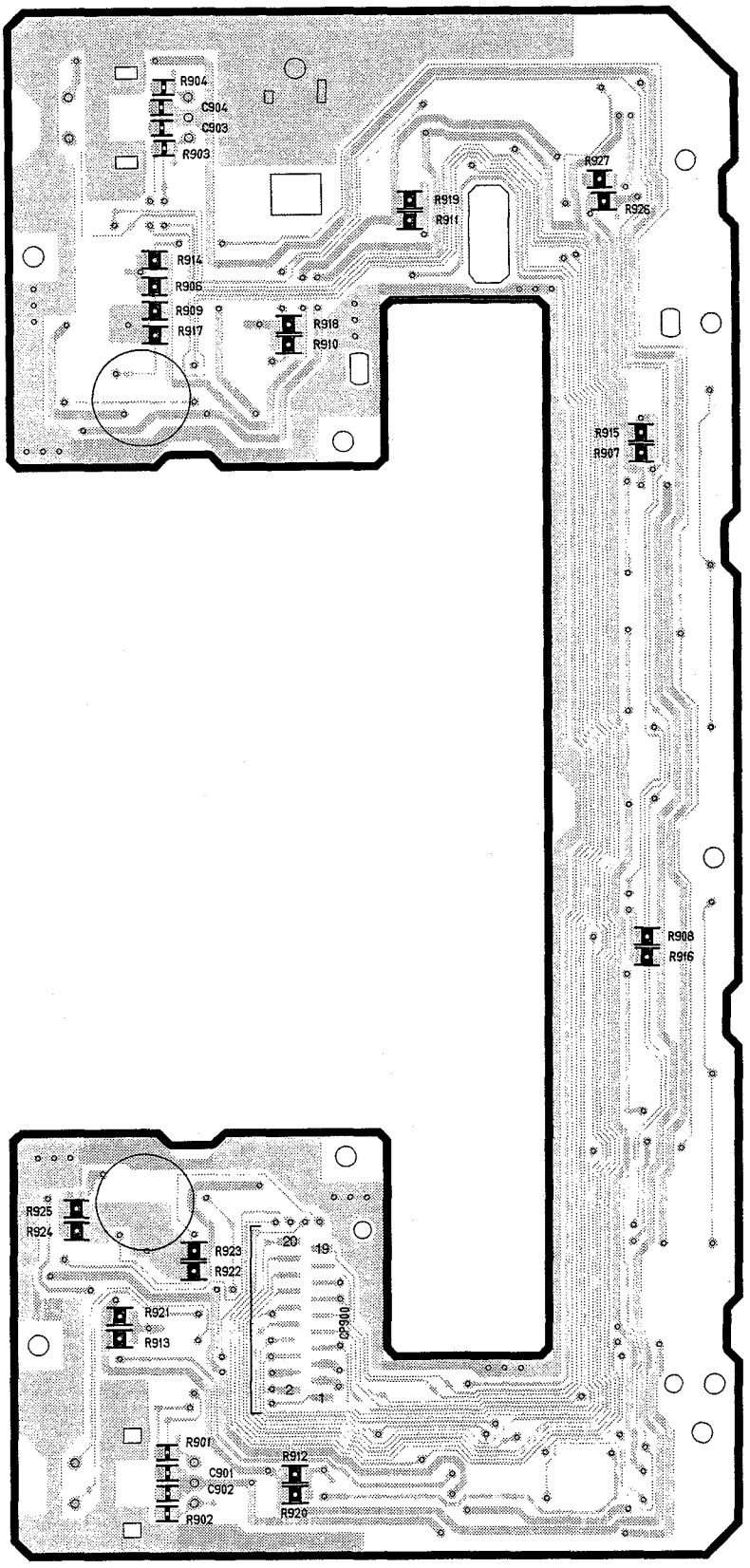
CQ-TS0920AB

13.4. SW/ VOL Block-1 (Top View)



[E-8787a][Top View]

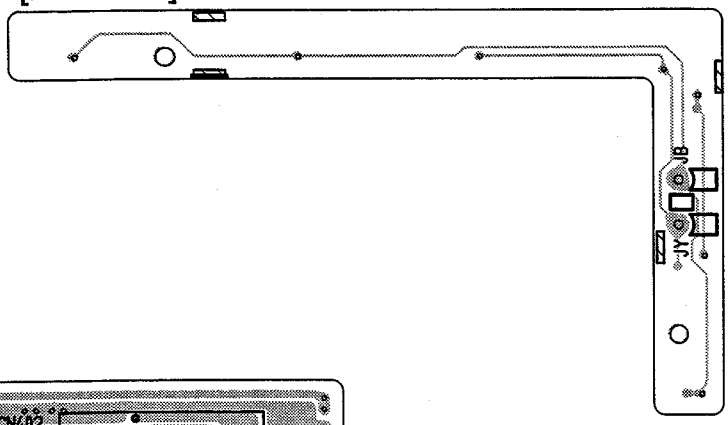
13.5. SW/ VOL Block-2 (Bottom View)



[E-8787a][Bottom View]

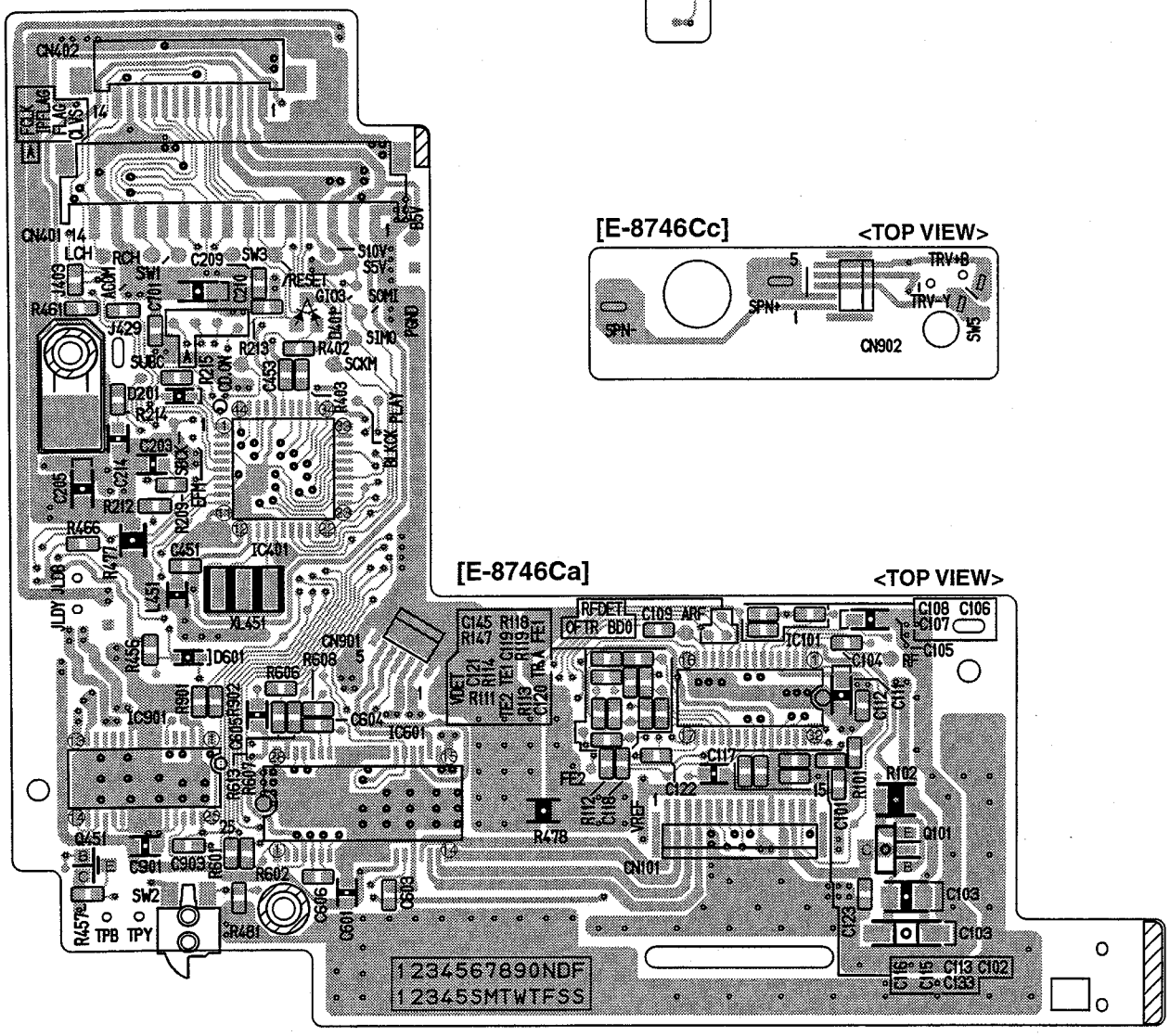
13.6. CD Servo Block -1 (Top View)

[E-8746Cb] <TOP VIEW>

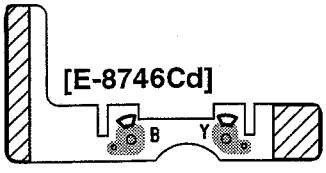


[E-8746Cc] <TOP VIEW>

[E-8746Ca] <TOP VIEW>

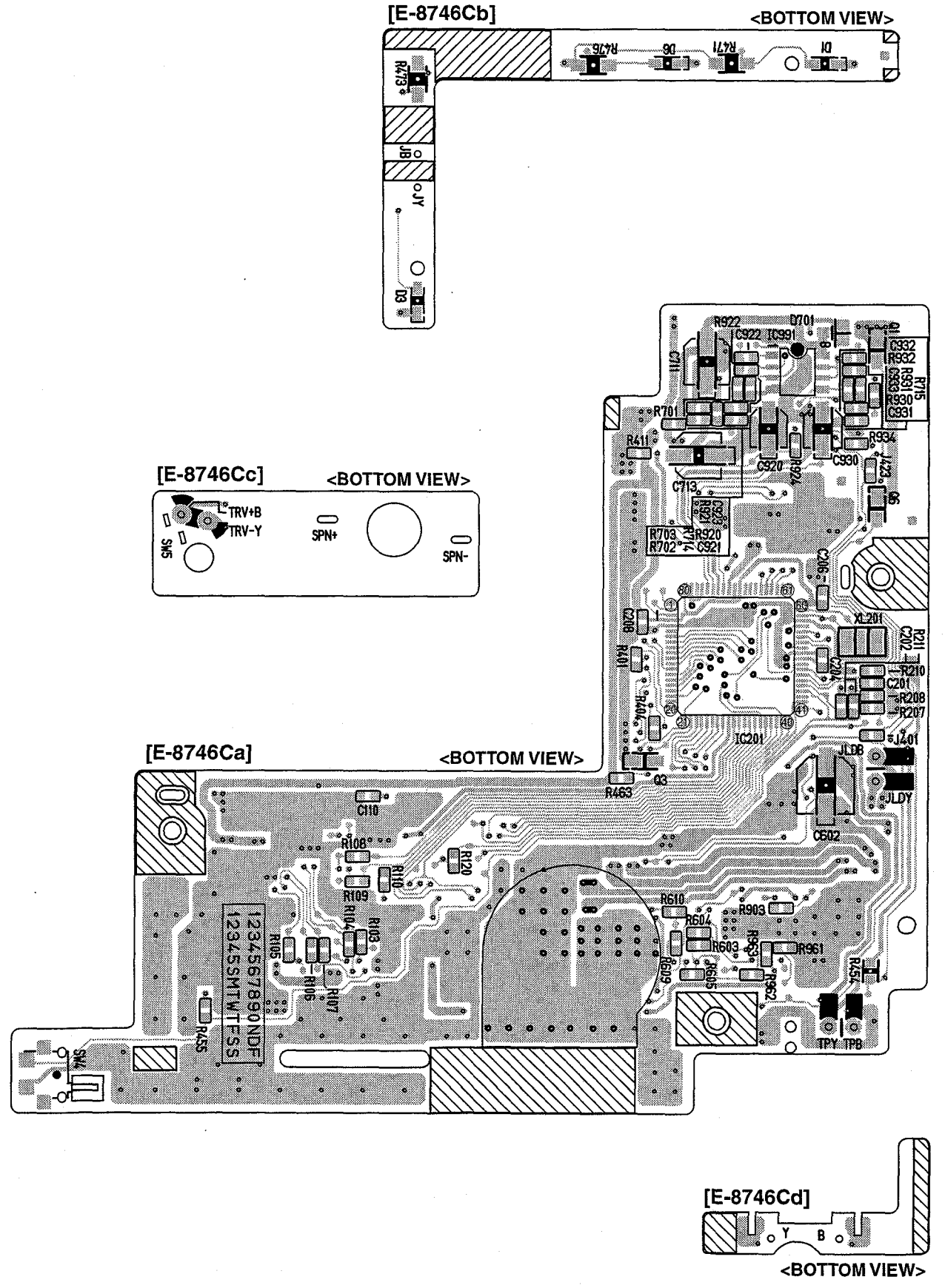


[E-8746Cd]



<TOP VIEW>

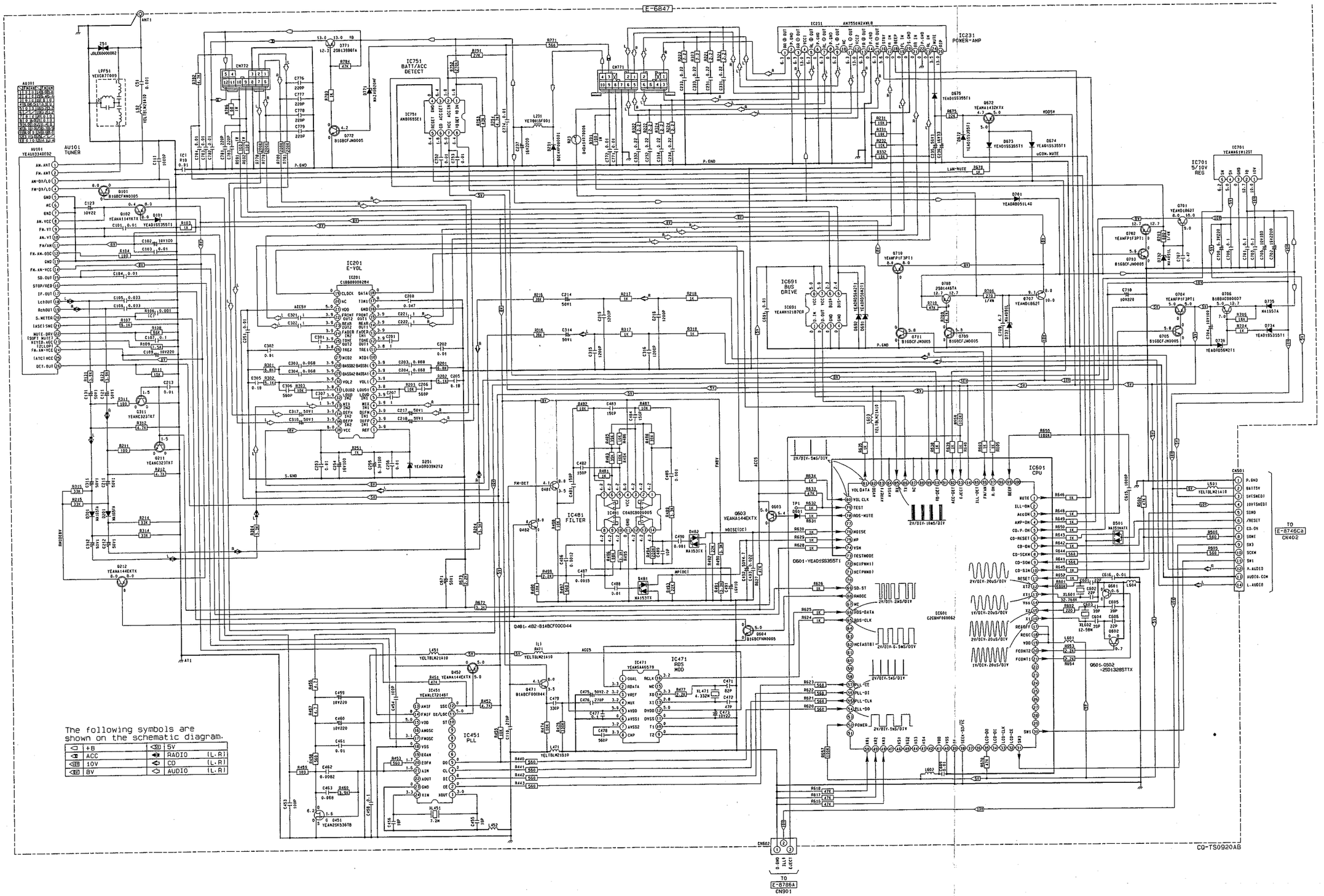
13.7. CD Servo Block -2 (Bottom View)



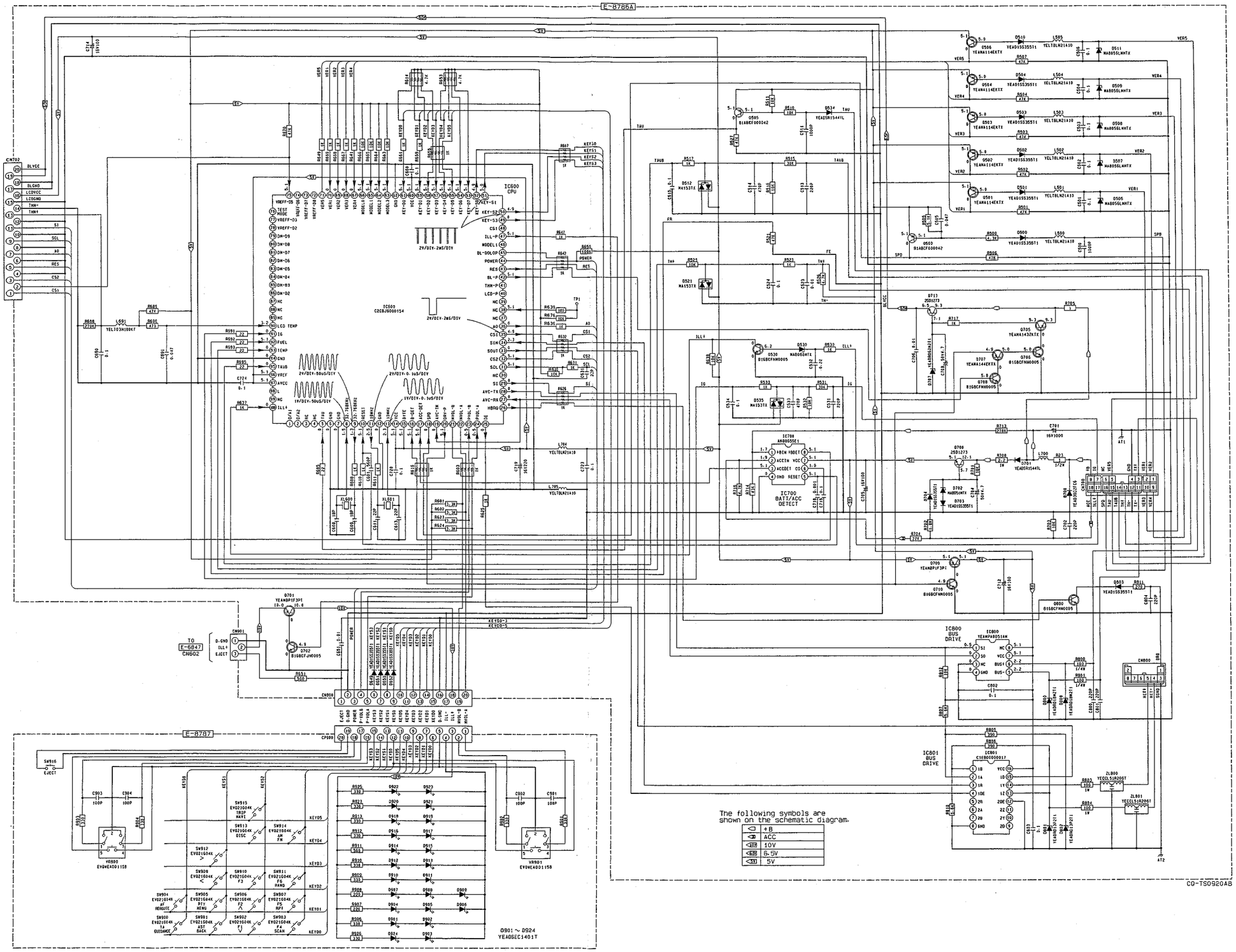
CQ-TS0920AB

14 SCHEMATIC DIAGRAM-2

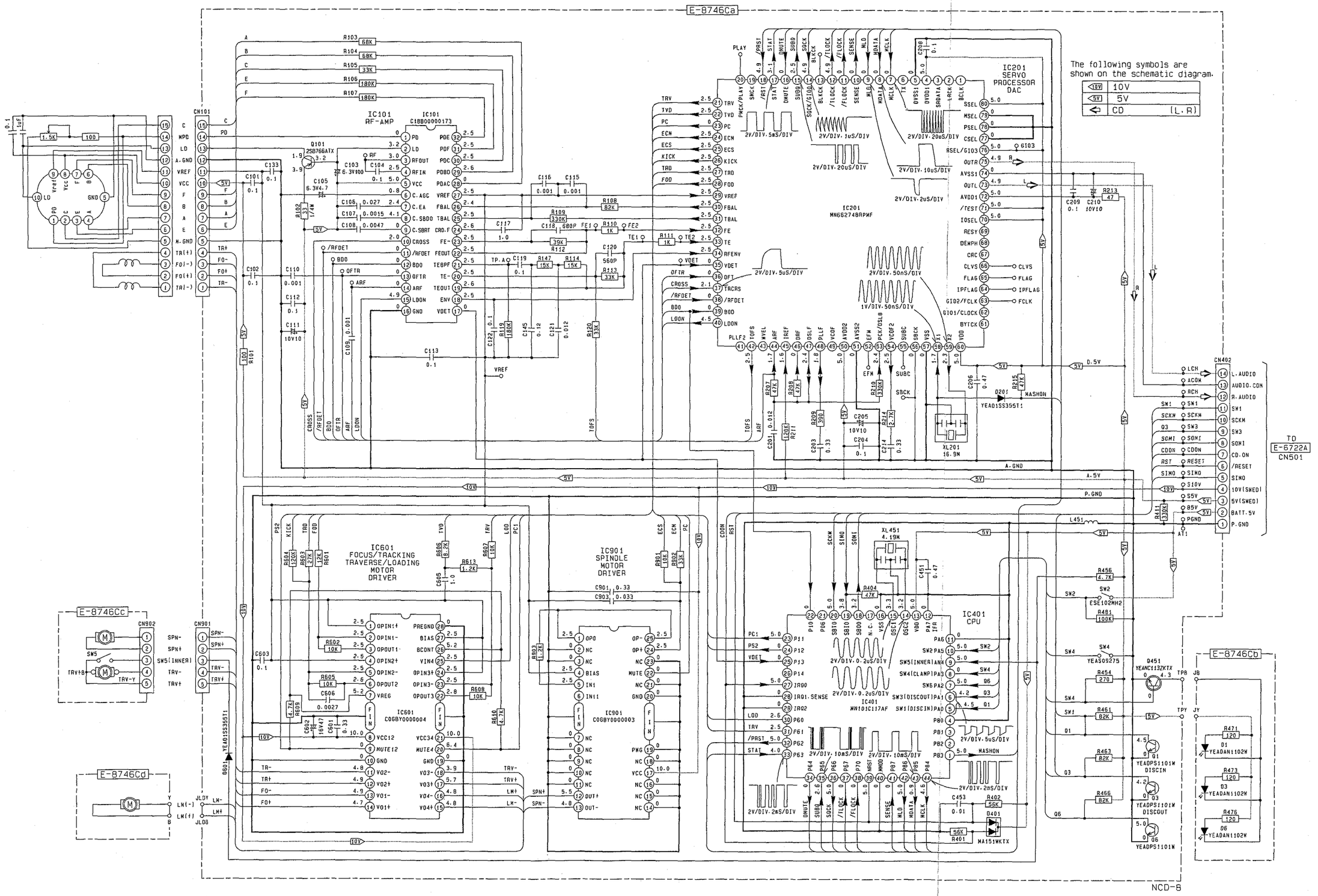
14.1. Main Block



14.2. Display/ Interface/ Front SW Block



14.3. CD Servo Block



PARTS AVAILABILITY

HOW TO ORDER REPLACEMENT PARTS

Replacement parts can be ordered from either a Parts Depot or directly from Toyota Motor Corporation. When ordering, please refer to the Replacement Parts List in this service manual to insure that you receive the correct part.
Please enter not only part number(s) but also unit number of TOYOTA car radio / car stereo in a REMARKS columun of the order sheet.

DISPONIBILIDAD DE PARTES DE REPUESTO

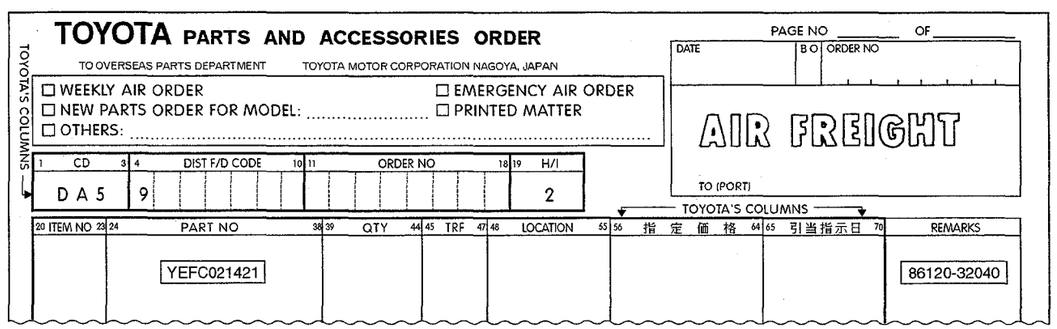
METODO DE HACER PEDIDOS DE PARTES DEREPUESTO

Partes de repuesto pueden pedirse tanto a un Depósito de Partes de Repuesto (Parts Depot) como directamente a la Toyota Motor Corporation. En hacer los pedidos, refiérase a la Lista de Partes de Repuesto que se encuentra en este manual de servicio a fin de asegurarse de su recibo de las partes correctas.
Favor llenar la columna OBSERVACIONES de la hoja de pedido no solamente con el (los) número(s) de part(s) sino también con el número de la unidad de radio/estéreo de carro, TOYOTA.

DISPONIBILITE DE PIECES

MOYEN DE COMMANDER DES PIECES DE RECHANGE.

Les pièces de rechange seront commandées au Depôt de Pièces (Parts Depot) ou directement à Toyota Motor Corporation. Lors d'une commande, veuillez consulter le Liste de pièces de rechange dans ce manuel d'atelier pour être sûr que vous recevez la pièce extacte. Veuillez écrire non seulement le(s) numéro(s) de pièce mais aussi le numéro d'unité de TOYOTA auto-radio/auto-stéréo dans la colonne REMARQUES du bullentin de commande.


TOYOTA PARTS AND ACCESSORIES ORDER

TO OVERSEAS PARTS DEPARTMENT TOYOTA MOTOR CORPORATION NAGOYA, JAPAN

PAGE NO _____ OF _____

DATE | B O | ORDER NO

☐ WEEKLY AIR ORDER ☐ EMERGENCY AIR ORDER
☐ NEW PARTS ORDER FOR MODEL: ..... ☐ PRINTED MATTER
☐ OTHERS: .....

AIR FREIGHT

TO (PORT)

TOYOTA'S COLUMNS

1 CD 3	4 DIST F/D CODE 10	11 ORDER NO 18	19 H/I
D A 5	9		2

TOYOTA'S COLUMNS

20 ITEM NO 23	24 PART NO 38	39 QTY 44	45 TRF 47	48 LOCATION 55	56 指 定 価 格 64	65 引当指示日 70	REMARKS
	YEFC021421						86120-32040

U.S.A. — PANASONIC PARTS DEPOT

EASTERN REGIONAL PARTS DEPOT
1225 NORTHBROOK PARKWAY SUITE 2-400
SUWANEE, GA 30174
PHONE : (404) 388-6800

WESTERN REGIONAL PARTS DEPOT
20421 84TH AVE. SOUTH
KENT, WA 98032
PHONE : (206)-395-7343

CANADA — PANASONIC PARTS DEPOT

TRONTO
PANASONIC CANADA INC.
5770 AMBLER DRIVE, MISSISSAUGA, ONTARIO L4W 2T3
PHONE : (905)-624-5010

EUROPE — PANASONIC PARTS DEPOT

HAMBURG
PANASONIC SERVICE DEUTSCHLAND G.M.B.H.
2000 HAMBURG 28 AUSSCHLAGER BILLDEICH 32 F.R. GERMANY
PHONE : (040)-789511

SCANDINAVIA — PANASONIC PARTS DEPOT

STOCKHOLM
PANASONIC SERVICE SCANDINAVIAN A.B.
INSTRUMENTVAGEN 29-31, BOX 43047,
100 72 STOCKHOLM, SWEDEN
PHONE : 08-190180

AUSTRALIA — PANASONIC PARTS DEPOT

SYDNEY
PANASONIC AUSTRALIA PTY, LTD
1 GARIGAL ROAD, BELROSE, N.S.W. 2085
PHONE : (02)-986-7640

MELBOURNE
PANASONIC AUSTRALIA PTY, LTD
1 CARIBBEAN DRIVE, SCORESBY VIC. 3179
PHONE : (03)-213-8888

ADELAIDE
PANASONIC AUSTRALIA PTY, LTD
125 PORT ROAD, HINDMARSH S.A. 5007
PHONE : (08)-346-3999

BRISBANE
PANASONIC AUSTRALIA PTY, LTD
494 NUDGEE ROAD, HENDRA QUEENSLAND. 4012
PHONE : (07)-268-6455

PERTH
PANASONIC AUSTRALIA PTY, LTD
37 KEWDALE ROAD, WELSHPOOL, W.A. 6106
PHONE : (09)-451-7211

OTHER COUNTRIES

Please order from the Overseas Parts Department, Toyota Motor Corporation, using the normal Parts & Accessories Order From for ordering Automobile parts.

OTROS PAISES

Favor hacer pedidos al Departamento Partes al Ultramar (Overseas parts Department), Toyota Motor Corporation utilizando el formulario normal de pedido de partes y accesorios que se usa para pedir las partes de repuestos de automóviles.

AUTRES PAYS

Veuillez commandes au départment de pièces d'outre-mer (Overseas Parts Department), Toyota Motor Corporation, en vous servant du Bulletin de Commande Pièces & Accessoires pour des commandes de pièces d'automobile.

TOYOTA MOTOR CORPORATION

OVERSEAS SERVICE DIVISION

Printed in Japan (S)
2001.4
(Recycled Paper)